

# Industrial Controls

## Overview of 3SE5 Position Switch Range

Brochure · October 2010



SIRIUS

Answers for industry.

SIEMENS

# Introduction

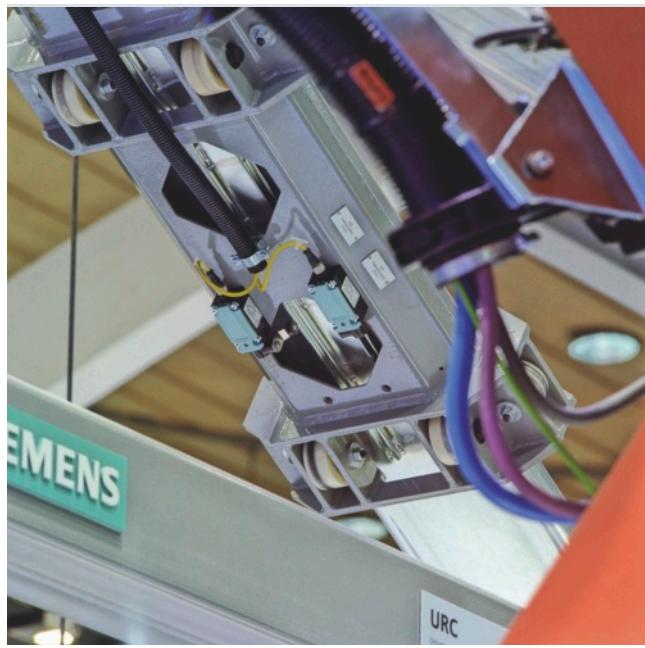
## Accurate and dependable: our SIRIUS detecting devices stand guard

There is a lot of information out there in your plant. To capture the data accurately, you need devices which you can rely on. Our comprehensive range of SIRIUS detecting devices is just what you need for nearly any field-level application. Our mechanical high-precision sensors dependably detect any motion sequence, convert it into electrical signals and transmit the data to your control systems, thus enabling machines or plants to be shut down immediately in the event of a fault. Reliably and with everything under control.

Whatever information you need and no matter how you want to get it, our portfolio offers the right solution:

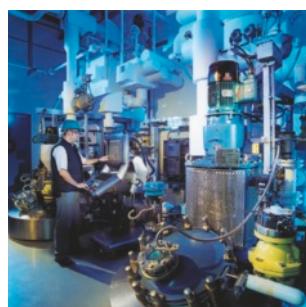
- **Standard position switches** in a plastic or metal enclosure for any conceivable standard application and numerous safety-related applications, e.g. position switches with short-stroke contact block for high-precision disconnect
- **Safety position switches** with separate actuator or with interlock, e.g. for the secure interlocking of protective doors

Whether you use the switches for standard functions or in safety circuits, no unexpected movement escapes our detecting devices – no matter how harsh the conditions are. Thanks to positive-opening contacts  complying with the standard IEC 60947-5-1 all our mechanical position switches are suitable for use in applications up to Category 4 according to ISO 13849-1 (EN 954-1).



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# SIRIUS standard position switches

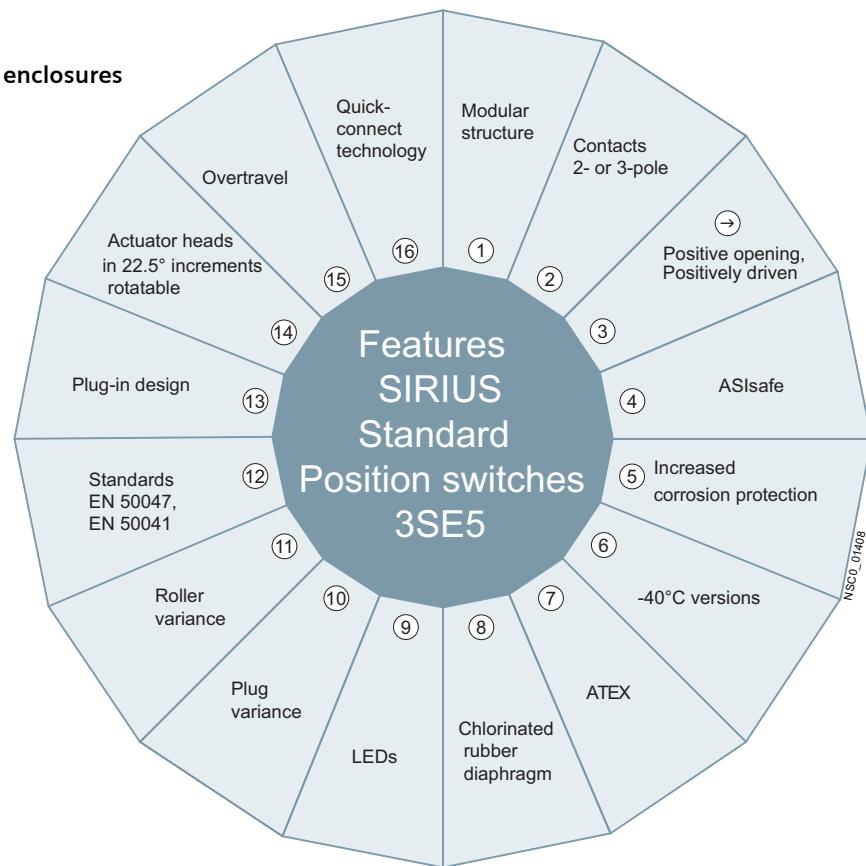
## Features and advantages at a glance

**SIRIUS standard position switches**<sup>1)</sup> give you the dependable performance you need in your everyday industrial applications thanks to their modular, consistent design with a wide choice of variants and enormous variety of operating mechanisms.

Standardized designs and functions make it easy for you to select the right switch, and they also facilitate simple, efficient stockage, installation, wiring and maintenance. Our wide range of products is designed for applications up to Category 4 according to ISO 13849-1 (EN 954-1) when you select the right product and use them properly in conjunction with fail-safe evaluation units such as the 3TK28, ASISafe, SIMATIC or SINUMERIK.

The range of SIRIUS 3SE5 position switches includes both complete units and modular designs with the help of which the customer can easily and quickly assemble special versions.

**Even more compact, modular, simple to connect:** Standard position switches have to offer more and more features. We have developed our new generation of SIRIUS standard position switches to closely meet market demands and offer you a whole series of advantages:



<sup>1)</sup> With a 3SE51/52 position switch it is possible to achieve Category 2 according to ISO 13849-1 (EN 954-1) or SIL 1 according to IEC 61508. Categories 3 or 4 according to ISO 13849-1 (EN 954-1) or SIL 2 or 3 according to IEC 61508 can be achieved by using a second 3SE51/52 position switch.

- ① Modular design** with many standardized components reduces the number of variants, simplifies stock keeping and increases the availability of spare parts.
- ② 2- or 3-pole contacts:**  
Variants: 1NO + 1NC, 2NC + 1NO, 2NO + 1NC
- **The 3-pole contact block** offers redundant disconnect and additional signaling for added safety, and it does not take up any more space than 2-pole contact blocks.
  - **Snap-action contacts:** Simultaneous switching of all contacts, operating point independent of the actuating speed, no contact erosion.  
**Short stroke** improves precision through a reduced actuation path.
  - **2 x 2 mm** contact gap for the elevator industry enables simultaneous disconnect and signaling.
  - **Slow-action contacts:** Difference in travel (zero-current interval) between normally opened contact and normally closed contact,  $v_{min} = 0.4 \text{ m/s}$
  - Slow-action contact with make-before-break (for introducing a 2nd function in a sequence control)
- ③** All modules/devices which have the code  can be used in safety circuits.
- ④** The entire ASIsafe electronics are now integrated into the standard housing – ASIsafe now does not take up any extra space, adapters and conventional wiring are no longer required.

#### Extreme ambient conditions

- ⑤ Increased corrosion protection:** Use in harsh environments (sea water, contact with detergents etc.) possible
- ⑥ -40°C versions:** For employment in railway applications, for instance

**The modular design of the new generation of standard position switches saves time and increases flexibility during installation of a whole range of switch variants.**

**Easy plug-in method –  
for fast replacement of the actuator heads**



- ① Open the cover
- ② Actuate the locking lever
- ③ Replace the actuator head (rotatable in 22.5° increments)
- ④ Lock and close the cover

**⑦ ATEX certification** enables use in environments with combustible dust, gases, vapor and mist. (Certified according to ATEX 95 ((94/9/EGIII2D)), approved for Zone 21/22)

#### ⑧ Chlorinated rubber diaphragm

All enclosure variants have an integrated chlorinated rubber diaphragm for high functional safety in cold and aggressive environments (dust, moisture).

**⑨ LED displays** are available for all enclosures, making it easier to perform on-site diagnosis through feedback directly at the switch (24 V DC and 230 V AC available).

#### ⑩ Plug variance

- M12 plug (4-, 5-, 8-pole)
- Plug, 6-pole + PE

#### ⑪ Roller variance

– Plastic rollers, high-grade steels rollers for frequent overtravel, various sizes, rubber roller, with ball bearing

#### ⑫ Standards EN 50047 and EN 50041

The standards describe the mountings and operating points of the position switches.

**⑬ Plug-in design** and a standardized interface simplify installation and replacement of the actuator heads.

**⑭ All actuator heads can be rotated in 22.5° increments.**

#### ⑮ Overtravel

Rounded and roller plungers according to EN 50041 with 3 mm overtravel (total travel 9 mm) for greater tolerance when switching

**⑯ The quick-connect technology on our plastic enclosures** according to EN 50047 (31 mm wide) **reduces mounting time by up to 25 %.**

**Quick-connect technology for plastic enclosures reduces mounting times by up to 25%**



1. Connect the connecting cable to the terminals of the contact block
2. Pass through the slit into the gland opening

# Diverse combination options for operating mechanisms, contact blocks and enclosures

|  |   | Operating mechanisms  |   |   |   |  |  |
|--|---|---|---|---|---|--|--|
|  |   | Typical 3SE5 000... operating mechanisms for 31 mm, 50 mm plastic enclosures and 31 mm metal enclosures |   |   |   |  |  |
| Contact block (contact element+contacts)                                       |   | Type C  | Type E  | Type A  | Type acc. to EN 50047   |  |  |
| <b>Contacts</b><br>(integrated or changeable)                                  |   |   |   |   |   |  |  |
| <b>2-pole or 3-pole</b>  |   |   |   |   |   |  |  |
| <b>Special</b>   |   |   |   |   |   |  |  |
| Contact blocks with 2 or 3 contacts can be used in the same installation space |   |   |   |   |   |  |  |
| <b>Snap action</b>   |   |   |   |   |   |  |  |
| 1NO + 1NC  |   |   |   |   |   |  |  |
| 1NO + 2NC  |   |   |   |   |   |  |  |
| <b>Slow action</b>   |   |   |   |   |   |  |  |
| 1NO + 1NC  |   |   |   |   |   |  |  |
| 1NO + 2NC  |   |   |   |   |   |  |  |
| 2NO + 1NC  |   |   |   |   |   |  |  |
| Slow action with make-before-break   |   |   |   |   |   |  |  |
| 2NC + 1 NO   |   |   |   |   |   |  |  |
| <b>Special contacts</b><br>(integrated or changeable)                          |   |   |   |   |   |  |  |
| 2x2 mm switching interval<br>(snap action)                                     |   |   |   |   |   |  |  |
| 1 NO + 1 NC  |   |   |   |   |   |  |  |
| Simultaneous disconnect and signaling  |   |   |   |   |   |  |  |
| <b>Short stroke (snap action)</b>  |   |   |   |   |   |  |  |
| 1 NO + 1 NC  |   |   |   |   |   |  |  |
| Reduced actuation path improves the precision of the switching operations      |   |   |   |   |   |  |  |
| <b>Enclosures</b>  | 3SE5 232<br>Plastic<br>31x68 mm, IP65   | 3SE5 212<br>Metal<br>IP66/IP67  | 3SE5 242<br>Plastic<br>50x53 mm, IP66/IP67  | 3SE5 132<br>Plastic<br>40x78 mm, IP66/IP67  | 3SE5 112<br>Metal<br>40x78 mm, IP66/IP67  | 3SE5 122<br>Metal<br>56x78 mm, IP66/IP67 |  |
|  |  |                      |  |  |  |  |  |
|  | Mounting and operating points acc. to EN 50047, type B                              |   | Operating points acc. to EN 50047   |   | Mounting and operating points acc. to EN 50041  |  | Operating points acc. to EN 50041                      |
| <b>Connection</b>  | 1 x M20 x 1.5, M12 plug<br>4-pole   5-pole<br>Quick-connect technology for plastic  |   | 2 x M20 x 1.5<br>M12 plug, 4-pole   |   | 1 x M20 x 1.5<br>M12 plug, 5- (or 8)-pole<br>Plug, 6-pole + PE                        |  | 3 x M20 x 1.5<br>M12 plug, 5-pole<br>Plug, 6-pole + PE |

Every enclosure is freely combinable

A combination of enclosures and operating results in standard switches according to

Typical 3SE5 000... operating mechanisms for 40 mm plastic enclosures and 40 mm, 56 mm, 56 mm XL metal enclosures



with each of the above operating mechanisms

#### High-grade steel operating mechanisms

Rollers, levers and plungers available in robust high-grade steel variants

#### Increased corrosion protection

Increased corrosion protection is available for all enclosures

#### Switching direction on twist actuators can be set

The switching direction can be changed in just a few moves from switching to left and right to switching to left or right

mechanisms with the same background color (■ / ■)  
the European standards [EN 50047](#) or [EN 50041](#)

#### Contacts: 4 or 6

|  |  |   |  |   |   |
|--|--|---|--|---|---|
| 3SE5 162<br>Metal XL<br>56 x 107 mm, IP66/IP67                                     | 3SF1 2<br>Plastic/metal<br>(AS-Interface integrated, no conventional wiring needed)  | 3SF1 1<br>Metal   | 3SF1 1<br>Metal  | 3SE5 112....-1DAO<br>Metal  | 3SE5 122....-1DAO<br>Metal  |
|  | <br>Mounting and operating points acc. to EN 50047<br>Status display with three LEDs integrated | <br>Mounting and operating points acc. to EN 50041 | <br>Mounting acc. to EN 50041 | <br>Mounting and operating points acc. to EN 50041 |  |
| Operating points acc. to EN 50041  | Position switches with AS-Interface  | 1 x M20 x 1.5<br>M12 plugs,<br>4-pole   | 1 x M20 x 1.5<br>M12 plugs,<br>4-pole  | 2 x M20 x 1.5<br>M12 plugs,<br>4-pole   | 3 x M20 x 1.5   |

# Selection criteria for standard position switches

| Enclosure versions |   |                                |  |
|--------------------|---|--------------------------------|--|
|                    | Enclosures  | Degree of protection           | Number of screw connections<br>M20 x 1.5   |
|                    | Open-type   | IP10 (3-pole)<br>IP20 (2-pole) | --<br>--                                   |
|                    | Plastic enclosures, 31 mm wide,<br>according to EN 50047                                      | IP65                           | 1  |
|                    | Metal enclosures, 31 mm wide,<br>according to EN 50047  | IP66/IP67                      | 1  |
|                    | Plastic enclosure, 50 mm wide   | IP66/IP67                      | 2<br>(suitable for looping through cables) |
|                    | Plastic enclosures, 40 mm wide,<br>metal enclosures 40 mm wide,<br>both according to EN 50041 | IP66/IP67<br>IP66/IP67         | 1<br>1                                     |
|                    | Metal enclosures, 56 mm wide  | IP66/IP67 (2- or 3-pole)       | 3<br>(suitable for looping through cables) |
|                    | Metal enclosures, 56 mm XL  | XL: 4- or 6-pole               | 3<br>(suitable for looping through cables) |

| Contact block (switching element + contacts)                 |   |  |  |
|--|---|--|--|
| Snap-action contact<br>1 NO / 1 NC or 1 NO / 2 NC            | NC contacts and NO contacts switch at the same time regardless of the actuating speed   |  |  |
| Slow-action contact<br>1 NO / 1 NC, 1 NO / 2 NC, 2 NO / 1 NC | Difference in travel between "NC contact opens" and "NO contact closes";<br>the switching speed is the same as or proportional to the actuating speed |  |  |
| Slow-action contact with make-before-break 1 NO / 2 NC       | Suitable for introducing a 2nd function in a sequence control   |  |  |

| Operating mechanisms |   |  |  |
|----------------------|---|--|--|
| Please note:         | <ul style="list-style-type: none"> <li>■ Direction of approach</li> <li>■ Actuating speed</li> <li>■ Form of actuating element</li> <li>■ Favorable material pair (actuator head - actuator)</li> </ul>   |  |  |
|                      | <b>Plain plungers, rounded plungers and roller plungers</b> <ul style="list-style-type: none"> <li>■ Operation in direction of the plunger axis or with bar at right angles to the plunger axis in case of roller plunger</li> <li>■ Rounded plungers and roller plungers with overtravel have an additional overtravel and hence a larger operating distance</li> <li>■ The roller plunger is recommended for lateral actuation and relatively long overrun</li> </ul> |  |  |
|                      | <b>Roller and angular roller levers</b> <ul style="list-style-type: none"> <li>■ For actuators made of finely ground steel in the form of cams, straight-edges or cam disks</li> </ul>  |  |  |
|                      | <b>Twist levers and rod actuators</b> <ul style="list-style-type: none"> <li>■ For a high starting speed (<math>v = 1.5 \text{ m/s}</math>)</li> <li>■ Variety of starting options</li> <li>■ Insensitive to oil, grinding dust and coarse-grained material</li> <li>■ <math>10^\circ</math> adjustment of the twist lever possible</li> <li>■ The twist lever allows the switching direction to be set from right, left or right/left as standard</li> </ul>           |  |  |
|                      | <b>Spring rod</b> <ul style="list-style-type: none"> <li>■ Can be used for undefined actuations and changing starting conditions</li> <li>■ Starting from any direction</li> <li>■ Available in various lengths</li> </ul>  |  |  |
|                      | <b>Roller plungers for central fixing with M18 x 1 thread</b> <ul style="list-style-type: none"> <li>■ Fast assembly</li> <li>■ Easy adjustment</li> </ul>  |  |  |
|                      | <b>Fork lever</b> <ul style="list-style-type: none"> <li>■ Switchable in two directions</li> <li>■ Latching actuator</li> <li>■ For reciprocating movements</li> </ul>  |  |  |

# Ordering notes on selection tables for 3SE5 position switches

| Complete unit <sup>1)</sup>  |                  |   | Module selection   |             |            |           |                  |  |               |             |      |  |  |                 |  |  |  |                       |  |                               |  |  |  |   |  |  |  |   |  |   |  |  |  |
|--|------------------|---|--|-------------|------------|-----------|------------------|--|---------------|-------------|------|--|--|-----------------|--|--|--|-----------------------|--|-------------------------------|--|--|--|---|--|--|--|---|--|---|--|--|--|
| <b>Ordering example</b><br>Position switch according to EN 50047;<br>plastic enclosure;<br>1 NO/1 NC contacts, slow-action contact<br>element; angular roller lever  |                  |   | <b>Ordering example</b><br>Position switch according to EN 50047;<br>plastic enclosure;<br>1 NO/1 NC contacts, slow-action contact<br>element; angular roller lever  |             |            |           |                  |  |               |             |      |  |  |                 |  |  |  |                       |  |                               |  |  |  |   |  |  |  |   |  |   |  |  |  |
|  <p><b>To be ordered:</b><br/>Complete unit<sup>1)</sup>:<br/>3SE5 232-0BF10<br/><br/>Fully assembled</p>   |                  |   |  <p><b>To be ordered separately:</b><br/>+ Actuator head:<br/>3SE5 000-OAF10<br/><br/>+</p> <p><b>Basic switch<sup>2)</sup>:</b><br/>3SE5 232-0BC05</p> |             |            |           |                  |  |               |             |      |  |  |                 |  |  |  |                       |  |                               |  |  |  |   |  |  |  |   |  |   |  |  |  |
|  |                  |   |  <p><b>To be ordered separately:</b><br/>+ Twist lever:<br/>3SE5 000-OAA31<br/><br/>+</p> <p><b>Basic switch<sup>2)</sup>:</b><br/>3SE5 232-0BC05</p> |             |            |           |                  |  |               |             |      |  |  |                 |  |  |  |                       |  |                               |  |  |  |   |  |  |  |   |  |   |  |  |  |
| <b>Excerpt from ordering table</b> <table border="1"> <thead> <tr> <th>Contact blocks</th> <th>LED display</th> <th>Connection</th> </tr> <tr> <th>Con-tacts</th> <th>Contact elements</th> <th></th> </tr> </thead> <tbody> <tr> <td>1 NO/<br/>1 NC</td> <td>Slow action</td> <td>None</td> </tr> <tr> <td></td> <td></td> <td>1 x (M20 x 1.5)</td> </tr> </tbody> </table> |                  |   | Contact blocks   | LED display | Connection | Con-tacts | Contact elements |  | 1 NO/<br>1 NC | Slow action | None |  |  | 1 x (M20 x 1.5) | <table border="1"> <thead> <tr> <th colspan="2">Angular roller levers</th> <th colspan="2">Twist levers acc. to EN 50047</th> </tr> </thead> <tbody> <tr> <td colspan="2">  </td> <td colspan="2">  </td> </tr> <tr> <td colspan="2"> <b>Metal levers</b><br/> <b>Plastic rollers</b><br/> <math>\uparrow v_{max} = 1 \text{ m/s}</math>  </td> <td colspan="2"> <b>High-grade steel levers</b><br/> <b>Plastic rollers</b><br/> <math>\leftrightarrow v_{max} = 1 \text{ m/s}</math>  </td> </tr> <tr> <td colspan="2">           Complete unit<sup>1)</sup><br/>           Basic switch<sup>2)</sup><br/>           + actuator head<br/>           + twist lever         </td> <td colspan="2">           --<br/>           3SE5 232-0BC05<br/>           3SE5 000-OAK00<br/>           3SE5 000-OAA31         </td> </tr> </tbody> </table> |  |  | Angular roller levers |  | Twist levers acc. to EN 50047 |  |  |  |  |  | <b>Metal levers</b><br><b>Plastic rollers</b><br>$\uparrow v_{max} = 1 \text{ m/s}$  |  | <b>High-grade steel levers</b><br><b>Plastic rollers</b><br>$\leftrightarrow v_{max} = 1 \text{ m/s}$  |  | Complete unit <sup>1)</sup><br>Basic switch <sup>2)</sup><br>+ actuator head<br>+ twist lever |  | --<br>3SE5 232-0BC05<br>3SE5 000-OAK00<br>3SE5 000-OAA31 |  |
| Contact blocks   | LED display      | Connection  |  |             |            |           |                  |  |               |             |      |  |  |                 |  |  |  |                       |  |                               |  |  |  |   |  |  |  |   |  |   |  |  |  |
| Con-tacts  | Contact elements |   |  |             |            |           |                  |  |               |             |      |  |  |                 |  |  |  |                       |  |                               |  |  |  |   |  |  |  |   |  |   |  |  |  |
| 1 NO/<br>1 NC  | Slow action      | None  |  |             |            |           |                  |  |               |             |      |  |  |                 |  |  |  |                       |  |                               |  |  |  |   |  |  |  |   |  |   |  |  |  |
|  |                  | 1 x (M20 x 1.5)   |  |             |            |           |                  |  |               |             |      |  |  |                 |  |  |  |                       |  |                               |  |  |  |   |  |  |  |   |  |   |  |  |  |
| Angular roller levers  |                  | Twist levers acc. to EN 50047   |  |             |            |           |                  |  |               |             |      |  |  |                 |  |  |  |                       |  |                               |  |  |  |   |  |  |  |   |  |   |  |  |  |
|    |                  |    |  |             |            |           |                  |  |               |             |      |  |  |                 |  |  |  |                       |  |                               |  |  |  |   |  |  |  |   |  |   |  |  |  |
| <b>Metal levers</b><br><b>Plastic rollers</b><br>$\uparrow v_{max} = 1 \text{ m/s}$    |                  | <b>High-grade steel levers</b><br><b>Plastic rollers</b><br>$\leftrightarrow v_{max} = 1 \text{ m/s}$  |  |             |            |           |                  |  |               |             |      |  |  |                 |  |  |  |                       |  |                               |  |  |  |   |  |  |  |   |  |   |  |  |  |
| Complete unit <sup>1)</sup><br>Basic switch <sup>2)</sup><br>+ actuator head<br>+ twist lever  |                  | --<br>3SE5 232-0BC05<br>3SE5 000-OAK00<br>3SE5 000-OAA31  |  |             |            |           |                  |  |               |             |      |  |  |                 |  |  |  |                       |  |                               |  |  |  |   |  |  |  |   |  |   |  |  |  |

<sup>1)</sup> Each complete unit can also be ordered as a module.

<sup>2)</sup> A basic switch comprises an enclosure with contact block (switching element + contacts) with connection and a cover with optional LED indicator.

# Standard position switches

## Plastic enclosure, 31 mm

Operating points and mounting  
according to EN 50047, IP65

Complete unit and  
Module selection



|                                     |   |             |   | Rounded plungers,<br>type B                |  | Roller plungers, type C |                         |
|-------------------------------------|---|-------------|---|--|--|-------------------------|-------------------------|
| Contacts                            | Contact elements                              | LED display | Connection                              | Protective cap (optional)<br>3SE5000-0AC30 | Teflon plunger<br>integrated in<br>basic switch<br>$\downarrow v_{max.} = 1 \text{ m/s}$ | Plastic roller          | High-grade steel roller |
|                                     | Slow action                                   | None        | 1 x (M20 x 1.5)                         | Complete units                             | 3SE5 232-0BC05   | 3SE5 232-0BD03          | --                      |
|                                     |   |             |   | Basic switches                             | --   | 3SE5 232-0BC05          | 3SE5 232-0BC05          |
|                                     |   |             |   | + Actuator heads                           | --   | 3SE5 000-0AD03          | 3SE5 000-0AD04          |
|                                     |   |             | M12 plug,<br>4-pole                     | Complete units                             | 3SE5 234-0BC05-1AC4  | --                      | --                      |
|                                     |   |             |   | Basic switches                             | --   | 3SE5 234-0BC05-1AC4     | 3SE5 234-0BC05-1AC4     |
|                                     | Snap action<br>integrated,<br>not replaceable | None        | 1 x (M20 x 1.5)                         | + Actuator heads                           | --   | 3SE5 000-0AD03          | 3SE5 000-0AD04          |
|                                     |   |             |   | Complete units                             | 3SE5 232-0HC05   | 3SE5 232-0HD03          | --                      |
|                                     |   |             |   | Basic switches                             | --   | 3SE5 232-0HC05          | 3SE5 232-0HC05          |
|                                     |   |             | M12 plug,<br>4-pole                     | + Actuator heads                           | --   | 3SE5 000-0AD03          | 3SE5 000-0AD04          |
|                                     |   |             |   | Complete units                             | 3SE5 234-0HC05-1AC4  | 3SE5 234-0HD03-1AC4     | --                      |
|                                     | Slow action                                   | None        | 1 x (M20 x 1.5)                         | Basic switches                             | --   | 3SE5 234-0HC05-1AC4     | 3SE5 234-0HC05-1AC4     |
|                                     |   |             |   | + Actuator heads                           | --   | 3SE5 000-0AD03          | 3SE5 000-0AD04          |
|                                     |   |             |   | Complete units                             | 3SE5 232-0FC05   | --                      | --                      |
|                                     |   |             | M12 plug,<br>4-pole                     | Basic switches                             | --   | 3SE5 232-0FC05          | 3SE5 232-0FC05          |
|                                     |   |             |   | + Actuator heads                           | --   | 3SE5 000-0AD03          | 3SE5 000-0AD04          |
|                                     | Snap action                                   | None        | 1 x (M20 x 1.5)                         | Complete units                             | 3SE5 232-0KC05   | 3SE5 232-0KD03          | --                      |
|                                     |   |             |   | Basic switches                             | --   | 3SE5 232-0KC05          | 3SE5 232-0KC05          |
|                                     |   |             |   | + Actuator heads                           | --   | 3SE5 000-0AD03          | 3SE5 000-0AD04          |
|                                     |   |             | M12 plug,<br>4-pole<br>(2 NC connected) | Complete units                             | 3SE5 234-0KC05-1AE0  | --                      | --                      |
|                                     |   |             |   | Basic switches                             | --   | 3SE5 234-0KC05-1AE0     | 3SE5 234-0KC05-1AE0     |
|                                     | Slow action                                   | None        | 1 x (M20 x 1.5)                         | + Actuator heads                           | --   | 3SE5 000-0AD03          | 3SE5 000-0AD04          |
|                                     |   |             |   | Complete units                             | 3SE5 232-0LC05   | 3SE5 232-0LD03          | --                      |
|                                     |   |             |   | Basic switches                             | --   | 3SE5 232-0LC05          | 3SE5 232-0LC05          |
|                                     |   |             | 2 LEDs,<br>yellow/<br>green<br>24 V DC  | + Actuator heads                           | --   | 3SE5 000-0AD03          | 3SE5 000-0AD04          |
|                                     |   |             |   | Complete units                             | 3SE5 232-1LC05   | --                      | --                      |
|                                     | Snap action                                   | None        | 1 x (M20 x 1.5)                         | Basic switches                             | --   | 3SE5 232-1LC05          | 3SE5 232-1LC05          |
|                                     |   |             |   | + Actuator heads                           | --   | 3SE5 000-0AD03          | 3SE5 000-0AD04          |
|                                     |   |             |   | Complete units                             | 3SE5 234-0LC05-1AE0  | --                      | --                      |
|                                     |   |             | M12 plug,<br>4-pole<br>(2 NC connected) | Basic switches                             | --   | 3SE5 234-0LC05-1AE0     | 3SE5 234-0LC05-1AE0     |
|                                     |   |             |   | + Actuator heads                           | --   | 3SE5 000-0AD03          | 3SE5 000-0AD04          |
| 2 NO/1 NC                           | Slow action                                   | None        | 1 x (M20 x 1.5)                         | Complete units                             | 3SE5 232-0PC05   | --                      | --                      |
|                                     |   |             |   | Basic switches                             | --   | 3SE5 232-0PC05          | 3SE5 232-0PC05          |
|                                     |   |             |   | + Actuator heads                           | --   | 3SE5 000-0AD03          | 3SE5 000-0AD04          |
|                                     |   |             |   | Complete units                             | 3SE5 232-0MC05   | --                      | --                      |
| 1 NO/2 NC<br>With make-before-break | Slow action                                   | None        | 1 x (M20 x 1.5)                         | Basic switches                             | --   | 3SE5 232-0MC05          | 3SE5 232-0MC05          |
|                                     |   |             |   | + Actuator heads                           | --   | 3SE5 000-0AD03          | 3SE5 000-0AD04          |
|                                     |   |             |   | Complete units                             | 3SE5 232-0MC05   | --                      | --                      |

For ordering notes see page 9.

|                                   | Roller levers, type E           |                                 |                                 | Angular roller levers           |                                 |
|-----------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Plastic roller,<br>central fixing |                                 |                                 |                                 |                                 |                                 |
|                                   | Metal lever                     | High-grade steel lever          | Metal lever                     | High-grade steel lever          |                                 |
|                                   | Plastic roller                  | High-grade steel roller         | Plastic roller                  | Plastic roller                  | Plastic roller                  |
| ↔ $v_{\max.} = 1 \text{ m/s}$ ↗   | ↔ $v_{\max.} = 1 \text{ m/s}$ ↗ | ↔ $v_{\max.} = 1 \text{ m/s}$ ↗ | ↔ $v_{\max.} = 1 \text{ m/s}$ ↗ | ↑ $v_{\max.} = 1 \text{ m/s}$ ↗ | ↑ $v_{\max.} = 1 \text{ m/s}$ ↗ |
| --                                | 3SE5 232-0BC05                  | 3SE5 232-0BC05                  | 3SE5 232-0BC05                  | 3SE5 232-0BF10                  | --                              |
| 3SE5 232-0BC05                    | 3SE5 232-0BC05                  | 3SE5 232-0BC05                  | 3SE5 232-0BC05                  | 3SE5 232-0BC05                  | 3SE5 232-0BC05                  |
| 3SE5 000-OAD10                    | 3SE5 000-OAE10                  | 3SE5 000-OAE11                  | 3SE5 000-OAE12                  | 3SE5 000-OAF10                  | 3SE5 000-OAF12                  |
| --                                | --                              | --                              | --                              | --                              | --                              |
| 3SE5 234-0BC05-1AC4               | 3SE5 234-0BC05-1AC4             | 3SE5 234-0BC05-1AC4             | 3SE5 234-0BC05-1AC4             | 3SE5 234-0BC05-1AC4             | 3SE5 234-0BC05-1AC4             |
| 3SE5 000-OAD10                    | 3SE5 000-OAE10                  | 3SE5 000-OAE11                  | 3SE5 000-OAE12                  | 3SE5 000-OAF10                  | 3SE5 000-OAF12                  |
| --                                | --                              | --                              | --                              | --                              | --                              |
| 3SE5 232-0HD10                    | 3SE5 232-0HE10                  | --                              | --                              | 3SE5 232-0HF10                  | --                              |
| 3SE5 232-0HC05                    | 3SE5 232-0HC05                  | 3SE5 232-0HC05                  | 3SE5 232-0HC05                  | 3SE5 232-0HC05                  | 3SE5 232-0HC05                  |
| 3SE5 000-OAD10                    | 3SE5 000-OAE10                  | 3SE5 000-OAE11                  | 3SE5 000-OAE12                  | 3SE5 000-OAF10                  | 3SE5 000-OAF12                  |
| --                                | --                              | --                              | --                              | --                              | --                              |
| 3SE5 234-0HC05-1AC4               | 3SE5 234-0HC05-1AC4             | 3SE5 234-0HC05-1AC4             | 3SE5 234-0HC05-1AC4             | 3SE5 234-0HC05-1AC4             | 3SE5 234-0HC05-1AC4             |
| 3SE5 000-OAD10                    | 3SE5 000-OAE10                  | 3SE5 000-OAE11                  | 3SE5 000-OAE12                  | 3SE5 000-OAF10                  | 3SE5 000-OAF12                  |
| --                                | --                              | --                              | --                              | --                              | --                              |
| 3SE5 232-0FC05                    | 3SE5 232-0FC05                  | 3SE5 232-0FC05                  | 3SE5 232-0FC05                  | 3SE5 232-0FC05                  | 3SE5 232-0FC05                  |
| 3SE5 000-OAD10                    | 3SE5 000-OAE10                  | 3SE5 000-OAE11                  | 3SE5 000-OAE12                  | 3SE5 000-OAF10                  | 3SE5 000-OAF12                  |
| --                                | --                              | --                              | --                              | --                              | --                              |
| 3SE5 232-0KD10                    | 3SE5 232-0KE10                  | --                              | --                              | 3SE5 232-0KF10                  | --                              |
| 3SE5 232-0KC05                    | 3SE5 232-0KC05                  | 3SE5 232-0KC05                  | 3SE5 232-0KC05                  | 3SE5 232-0KC05                  | 3SE5 232-0KC05                  |
| 3SE5 000-OAD10                    | 3SE5 000-OAE10                  | 3SE5 000-OAE11                  | 3SE5 000-OAE12                  | 3SE5 000-OAF10                  | 3SE5 000-OAF12                  |
| --                                | --                              | --                              | --                              | --                              | --                              |
| 3SE5 234-0KC05-1AE0               | 3SE5 234-0KC05-1AE0             | 3SE5 234-0KC05-1AE0             | 3SE5 234-0KC05-1AE0             | 3SE5 234-0KC05-1AE0             | 3SE5 234-0KC05-1AE0             |
| 3SE5 000-OAD10                    | 3SE5 000-OAE10                  | 3SE5 000-OAE11                  | 3SE5 000-OAE12                  | 3SE5 000-OAF10                  | 3SE5 000-OAF12                  |
| --                                | --                              | --                              | --                              | --                              | --                              |
| 3SE5 232-0LE10                    | 3SE5 232-0LC05                  | --                              | --                              | 3SE5 232-0LF10                  | --                              |
| 3SE5 232-0LC05                    | 3SE5 232-0LC05                  | 3SE5 232-0LC05                  | 3SE5 232-0LC05                  | 3SE5 232-0LC05                  | 3SE5 232-0LC05                  |
| 3SE5 000-OAD10                    | 3SE5 000-OAE10                  | 3SE5 000-OAE11                  | 3SE5 000-OAE12                  | 3SE5 000-OAF10                  | 3SE5 000-OAF12                  |
| --                                | --                              | --                              | --                              | --                              | --                              |
| 3SE5 232-1LC05                    | 3SE5 232-1LC05                  | 3SE5 232-1LC05                  | 3SE5 232-1LC05                  | 3SE5 232-1LC05                  | 3SE5 232-1LC05                  |
| 3SE5 000-OAD10                    | 3SE5 000-OAE10                  | 3SE5 000-OAE11                  | 3SE5 000-OAE12                  | 3SE5 000-OAF10                  | 3SE5 000-OAF12                  |
| --                                | --                              | --                              | --                              | --                              | --                              |
| 3SE5 234-0LC05-1AE0               | 3SE5 234-0LC05-1AE0             | 3SE5 234-0LC05-1AE0             | 3SE5 234-0LC05-1AE0             | 3SE5 234-0LC05-1AE0             | 3SE5 234-0LC05-1AE0             |
| 3SE5 000-OAD10                    | 3SE5 000-OAE10                  | 3SE5 000-OAE11                  | 3SE5 000-OAE12                  | 3SE5 000-OAF10                  | 3SE5 000-OAF12                  |
| --                                | --                              | --                              | --                              | --                              | --                              |
| 3SE5 232-OPC05                    | 3SE5 232-OPC05                  | 3SE5 232-OPC05                  | 3SE5 232-OPC05                  | 3SE5 232-OPC05                  | 3SE5 232-OPC05                  |
| 3SE5 000-OAD10                    | 3SE5 000-OAE10                  | 3SE5 000-OAE11                  | 3SE5 000-OAE12                  | 3SE5 000-OAF10                  | 3SE5 000-OAF12                  |
| --                                | --                              | --                              | --                              | --                              | --                              |
| 3SE5 232-0MC05                    | 3SE5 232-0MC05                  | 3SE5 232-0MC05                  | 3SE5 232-0MC05                  | 3SE5 232-0MC05                  | 3SE5 232-0MC05                  |
| 3SE5 000-OAD10                    | 3SE5 000-OAE10                  | 3SE5 000-OAE11                  | 3SE5 000-OAE12                  | 3SE5 000-OAF10                  | 3SE5 000-OAF12                  |

# Standard position switches

## Plastic enclosure, 31 mm

Operating points and mounting  
according to EN 50047, IP65

Complete unit and  
Module selection



Spring rod actuators



Twist lever according to EN 50047, type A

| Contact blocks                      |  | LED display | Connection                              | Spring rod actuators                      |                     |                        |
|-------------------------------------|--|-------------|---|---|---------------------|------------------------|
| Contacts                            | Contact elements   |             |   | Plastic plunger,<br>Total length 142.5 mm | Metal lever         | High-grade steel lever |
| 1 NO/1 NC                           | Slow action  | None        | 1 x (M20 x 1.5)                         | Complete units                            | --                  | 3SE5 232-0BK21         |
|                                     |  |             |   | Basic switches                            | --                  | 3SE5 232-0BC05         |
|                                     |  |             |   | + Actuator heads                          | --                  | 3SE5 000-0AK00         |
|                                     |  |             |   | + Twist levers                            | --                  | 3SE5 000-0AA21         |
|                                     |  |             | M12 plug,<br>4-pole                     | Complete units                            | --                  | 3SE5 232-0HK21         |
|                                     |  |             |   | Basic switches                            | --                  | 3SE5 234-0BC05-1AC4    |
|                                     |  |             |   | + Actuator heads                          | --                  | 3SE5 000-0AK00         |
|                                     |  |             |   | + Twist levers                            | --                  | 3SE5 000-0AA21         |
|                                     | Snap action<br>integrated,<br>not replaceable                | None        | 1 x (M20 x 1.5)                         | Complete units                            | 3SE5 232-0HR01      | 3SE5 232-0HK21         |
|                                     |  |             |   | Basic switches                            | 3SE5 232-0HC05      | 3SE5 232-0HC05         |
|                                     |  |             |   | + Actuator heads                          | 3SE5 000-0AR01      | 3SE5 000-0AK00         |
|                                     |  |             |   | + Twist levers                            | --                  | 3SE5 000-0AA21         |
|                                     |  |             | M12 plug,<br>4-pole                     | Complete units                            | --                  | 3SE5 234-0HK21-1AC4    |
|                                     |  |             |   | Basic switches                            | 3SE5 234-0HC05-1AC4 | 3SE5 234-0HC05-1AC4    |
|                                     |  |             |   | + Actuator heads                          | 3SE5 000-0AR01      | 3SE5 000-0AK00         |
|                                     |  |             |   | + Twist levers                            | --                  | 3SE5 000-0AA21         |
|                                     | Snap action<br>Short stroke<br>Integrated<br>Not replaceable | None        | 1 x (M20 x 1.5)                         | Complete units                            | --                  | --                     |
|                                     |  |             |   | Basic switches                            | 3SE5 232-0FC05      | 3SE5 232-0FC05         |
|                                     |  |             |   | + Actuator heads                          | 3SE5 000-0AR01      | 3SE5 000-0AK00         |
|                                     |  |             |   | + Twist levers                            | --                  | 3SE5 000-0AA21         |
| 1 NO/2 NC                           | Slow action  | None        | 1 x (M20 x 1.5)                         | Complete units                            | --                  | 3SE5 232-0KK21         |
|                                     |  |             |   | Basic switches                            | --                  | 3SE5 232-0KC05         |
|                                     |  |             |   | + Actuator heads                          | --                  | 3SE5 000-0AK00         |
|                                     |  |             |   | + Twist levers                            | --                  | 3SE5 000-0AA21         |
|                                     |  |             | M12 plug,<br>4-pole<br>(2 NC connected) | Complete units                            | --                  | 3SE5 234-0KC05-1AE0    |
|                                     |  |             |   | Basic switches                            | --                  | 3SE5 234-0KC05-1AE0    |
|                                     |  |             |   | + Actuator heads                          | --                  | 3SE5 000-0AK00         |
|                                     |  |             |   | + Twist levers                            | --                  | 3SE5 000-0AA21         |
|                                     |  |             |   | Complete units                            | --                  | 3SE5 232-0LK21         |
|                                     | Snap action  | None        | 1 x (M20 x 1.5)                         | Basic switches                            | 3SE5 232-0LC05      | 3SE5 232-0LC05         |
|                                     |  |             |   | + Actuator heads                          | 3SE5 000-0AR01      | 3SE5 000-0AK00         |
|                                     |  |             |   | + Twist levers                            | --                  | 3SE5 000-0AA21         |
|                                     |  |             | 2 LEDs,<br>yellow/<br>green<br>24 V DC  | Complete units                            | --                  | --                     |
|                                     |  |             |   | Basic switches                            | 3SE5 232-1LC05      | 3SE5 232-1LC05         |
|                                     |  |             |   | + Actuator heads                          | 3SE5 000-0AR01      | 3SE5 000-0AK00         |
|                                     |  |             |   | + Twist levers                            | --                  | 3SE5 000-0AA21         |
|                                     |  |             |   | Complete units                            | --                  | 3SE5 234-0LC05-1AE0    |
|                                     | Slow action  | None        | 1 x (M20 x 1.5)                         | Basic switches                            | 3SE5 234-0LC05-1AE0 | 3SE5 234-0LC05-1AE0    |
|                                     |  |             |   | + Actuator heads                          | 3SE5 000-0AR01      | 3SE5 000-0AK00         |
|                                     |  |             |   | + Twist levers                            | --                  | 3SE5 000-0AA21         |
|                                     |  |             |   | Complete units                            | --                  | --                     |
|                                     |  |             |   | Basic switches                            | --                  | 3SE5 232-0PC05         |
| 2 NO/1 NC                           | Slow action  | None        | 1 x (M20 x 1.5)                         | + Actuator heads                          | --                  | 3SE5 000-0AK00         |
|                                     |  |             |   | + Twist levers                            | --                  | 3SE5 000-0AA21         |
| 1 NO/2 NC<br>With make-before-break | Slow action  | None        | 1 x (M20 x 1.5)                         | Complete units                            | --                  | --                     |
|                                     |  |             |   | Basic switches                            | --                  | 3SE5 232-0MC05         |
|                                     |  |             |   | + Actuator heads                          | --                  | 3SE5 000-0AK00         |
|                                     |  |             |   | + Twist levers                            | --                  | 3SE5 000-0AA21         |

For ordering notes see page 9.

**Twist actuators (switching right and/or left, adjustable)**


+



+

**Rod actuator, 200 mm long**

| Length-adjustable twist lever  |                                |                                     | Rod actuator, 200 mm long      |                                |
|--------------------------------|--------------------------------|-------------------------------------|--------------------------------|--------------------------------|
| Metal lever                    |                                |                                     | Aluminum                       | Plastic                        |
| Plastic roller                 | High-grade steel roller        | With latching holes, plastic roller |                                |                                |
| ↔ $v_{max.} = 1.5 \text{ m/s}$ | ↔ $v_{max.} = 1.5 \text{ m/s}$ | ↔ $v_{max.} = 1.5 \text{ m/s}$ ↗    | ↔ $v_{max.} = 1.5 \text{ m/s}$ | ↔ $v_{max.} = 1.5 \text{ m/s}$ |
| 3SE5 232-0BK50                 | --                             | --                                  | --                             | --                             |
| 3SE5 232-0BC05                 | 3SE5 232-0BC05                 | 3SE5 232-0BC05                      | 3SE5 232-0BC05                 | 3SE5 232-0BC05                 |
| 3SE5 000-0AK00                 | 3SE5 000-0AK00                 | 3SE5 000-0AK00                      | 3SE5 000-0AK00                 | 3SE5 000-0AK00                 |
| 3SE5 000-0AA50                 | 3SE5 000-0AA51                 | 3SE5 000-0AA60                      | 3SE5 000-0AA80                 | 3SE5 000-0AA82                 |
| --                             | --                             | --                                  | --                             | --                             |
| 3SE5 234-0BC05-1AC4            | 3SE5 234-0BC05-1AC4            | 3SE5 234-0BC05-1AC4                 | 3SE5 234-0BC05-1AC4            | 3SE5 234-0BC05-1AC4            |
| 3SE5 000-0AK00                 | 3SE5 000-0AK00                 | 3SE5 000-0AK00                      | 3SE5 000-0AK00                 | 3SE5 000-0AK00                 |
| 3SE5 000-0AA50                 | 3SE5 000-0AA51                 | 3SE5 000-0AA60                      | 3SE5 000-0AA80                 | 3SE5 000-0AA82                 |
| 3SE5 232-0HK50                 | --                             | 3SE5 232-0HK60                      | 3SE5 232-0HK80                 | 3SE5 232-0HK82                 |
| 3SE5 232-0HC05                 | 3SE5 232-0HC05                 | 3SE5 232-0HC05                      | 3SE5 232-0HC05                 | 3SE5 232-0HC05                 |
| 3SE5 000-0AK00                 | 3SE5 000-0AK00                 | 3SE5 000-0AK00                      | 3SE5 000-0AK00                 | 3SE5 000-0AK00                 |
| 3SE5 000-0AA50                 | 3SE5 000-0AA51                 | 3SE5 000-0AA60                      | 3SE5 000-0AA80                 | 3SE5 000-0AA82                 |
| --                             | --                             | --                                  | --                             | --                             |
| 3SE5 234-0HC05-1AC4            | 3SE5 234-0HC05-1AC4            | 3SE5 234-0HC05-1AC4                 | 3SE5 234-0HC05-1AC4            | 3SE5 234-0HC05-1AC4            |
| 3SE5 000-0AK00                 | 3SE5 000-0AK00                 | 3SE5 000-0AK00                      | 3SE5 000-0AK00                 | 3SE5 000-0AK00                 |
| 3SE5 000-0AA50                 | 3SE5 000-0AA51                 | 3SE5 000-0AA60                      | 3SE5 000-0AA80                 | 3SE5 000-0AA82                 |
| --                             | --                             | --                                  | --                             | --                             |
| 3SE5 232-0FC05                 | 3SE5 232-0FC05                 | 3SE5 232-0FC05                      | 3SE5 232-0FC05                 | 3SE5 232-0FC05                 |
| 3SE5 000-0AK00                 | 3SE5 000-0AK00                 | 3SE5 000-0AK00                      | 3SE5 000-0AK00                 | 3SE5 000-0AK00                 |
| 3SE5 000-0AA50                 | 3SE5 000-0AA51                 | 3SE5 000-0AA60                      | 3SE5 000-0AA80                 | 3SE5 000-0AA82                 |
| --                             | --                             | --                                  | --                             | --                             |
| 3SE5 232-0KC05                 | 3SE5 232-0KC05                 | 3SE5 232-0KC05                      | 3SE5 232-0KC05                 | 3SE5 232-0KC05                 |
| 3SE5 000-0AK00                 | 3SE5 000-0AK00                 | 3SE5 000-0AK00                      | 3SE5 000-0AK00                 | 3SE5 000-0AK00                 |
| 3SE5 000-0AA50                 | 3SE5 000-0AA51                 | 3SE5 000-0AA60                      | 3SE5 000-0AA80                 | 3SE5 000-0AA82                 |
| --                             | --                             | --                                  | --                             | --                             |
| 3SE5 234-0KC05-1AE0            | 3SE5 234-0KC05-1AE0            | 3SE5 234-0KC05-1AE0                 | 3SE5 234-0KC05-1AE0            | 3SE5 234-0KC05-1AE0            |
| 3SE5 000-0AK00                 | 3SE5 000-0AK00                 | 3SE5 000-0AK00                      | 3SE5 000-0AK00                 | 3SE5 000-0AK00                 |
| 3SE5 000-0AA50                 | 3SE5 000-0AA51                 | 3SE5 000-0AA60                      | 3SE5 000-0AA80                 | 3SE5 000-0AA82                 |
| 3SE5 232-0LK50                 | --                             | --                                  | --                             | --                             |
| 3SE5 232-0LC05                 | 3SE5 232-0LC05                 | 3SE5 232-0LC05                      | 3SE5 232-0LC05                 | 3SE5 232-0LC05                 |
| 3SE5 000-0AK00                 | 3SE5 000-0AK00                 | 3SE5 000-0AK00                      | 3SE5 000-0AK00                 | 3SE5 000-0AK00                 |
| 3SE5 000-0AA50                 | 3SE5 000-0AA51                 | 3SE5 000-0AA60                      | 3SE5 000-0AA80                 | 3SE5 000-0AA82                 |
| --                             | --                             | --                                  | --                             | --                             |
| 3SE5 232-1LC05                 | 3SE5 232-1LC05                 | 3SE5 232-1LC05                      | 3SE5 232-1LC05                 | 3SE5 232-1LC05                 |
| 3SE5 000-0AK00                 | 3SE5 000-0AK00                 | 3SE5 000-0AK00                      | 3SE5 000-0AK00                 | 3SE5 000-0AK00                 |
| 3SE5 000-0AA50                 | 3SE5 000-0AA51                 | 3SE5 000-0AA60                      | 3SE5 000-0AA80                 | 3SE5 000-0AA82                 |
| --                             | --                             | --                                  | --                             | --                             |
| 3SE5 234-0LC05-1AE0            | 3SE5 234-0LC05-1AE0            | 3SE5 234-0LC05-1AE0                 | 3SE5 234-0LC05-1AE0            | 3SE5 234-0LC05-1AE0            |
| 3SE5 000-0AK00                 | 3SE5 000-0AK00                 | 3SE5 000-0AK00                      | 3SE5 000-0AK00                 | 3SE5 000-0AK00                 |
| 3SE5 000-0AA50                 | 3SE5 000-0AA51                 | 3SE5 000-0AA60                      | 3SE5 000-0AA80                 | 3SE5 000-0AA82                 |
| --                             | --                             | --                                  | --                             | --                             |
| 3SE5 232-0PC05                 | 3SE5 232-0PC05                 | 3SE5 232-0PC05                      | 3SE5 232-0PC05                 | 3SE5 232-0PC05                 |
| 3SE5 000-0AK00                 | 3SE5 000-0AK00                 | 3SE5 000-0AK00                      | 3SE5 000-0AK00                 | 3SE5 000-0AK00                 |
| 3SE5 000-0AA50                 | 3SE5 000-0AA51                 | 3SE5 000-0AA60                      | 3SE5 000-0AA80                 | 3SE5 000-0AA82                 |
| --                             | --                             | --                                  | --                             | --                             |
| 3SE5 232-0MC05                 | 3SE5 232-0MC05                 | 3SE5 232-0MC05                      | 3SE5 232-0MC05                 | 3SE5 232-0MC05                 |
| 3SE5 000-0AK00                 | 3SE5 000-0AK00                 | 3SE5 000-0AK00                      | 3SE5 000-0AK00                 | 3SE5 000-0AK00                 |
| 3SE5 000-0AA50                 | 3SE5 000-0AA51                 | 3SE5 000-0AA60                      | 3SE5 000-0AA80                 | 3SE5 000-0AA82                 |

# Standard position switches

## Plastic enclosure, 40 mm

Operating points and mounting  
according to EN 50041, IP66/IP67

Complete unit and  
Module selection



| Plain plungers | Rounded plungers,<br>type B | Roller plungers, type C |
|----------------|-----------------------------|-------------------------|
|                |                             |                         |

| Contact blocks                   |                  | LED display | Connection       | High-grade steel plunger       |                     |                                | Plastic plunger     | Plastic plunger with plastic roller |    |
|----------------------------------|------------------|-------------|------------------|--------------------------------|---------------------|--------------------------------|---------------------|-------------------------------------|----|
| Contacts                         | Contact elements |             |                  | ↓ $v_{max.} = 1.5 \text{ m/s}$ | ↗                   | ↓ $v_{max.} = 1.5 \text{ m/s}$ | ↗                   | ↔ $v_{max.} = 1 \text{ m/s}$        | ↗  |
| 1 NO/1 NC                        | Slow action      | None        | 1 x (M20 x 1.5)  | Complete units                 | --                  | 3SE5 132-0BC03                 | 3SE5 132-0BD05      |                                     |    |
|                                  |                  |             |                  | Basic switches                 | 3SE5 132-0BA00      | 3SE5 132-0BA00                 | 3SE5 132-0BA00      |                                     |    |
|                                  |                  |             |                  | + Actuator heads               | 3SE5 000-0AB01      | 3SE5 000-0AC03                 | 3SE5 000-0AD05      |                                     |    |
|                                  | Snap action      | None        | M12 plug, 4-pole | Complete units                 | --                  | --                             | --                  | --                                  | -- |
|                                  |                  |             |                  | Basic switches                 | --                  | --                             | --                  | --                                  | -- |
|                                  |                  |             |                  | + Actuator heads               | --                  | --                             | --                  | --                                  | -- |
|                                  |                  |             | M12 plug, 4-pole | Complete units                 | --                  | 3SE5 132-0CC03                 | 3SE5 132-0CD05      |                                     |    |
|                                  |                  |             |                  | Basic switches                 | 3SE5 132-0CA00      | 3SE5 132-0CA00                 | 3SE5 132-0CA00      |                                     |    |
|                                  |                  |             |                  | + Actuator heads               | 3SE5 000-0AB01      | 3SE5 000-0AC03                 | 3SE5 000-0AD05      |                                     |    |
| 1 NO/2 NC                        | Slow action      | None        | 1 x (M20 x 1.5)  | Complete units                 | --                  | 3SE5 132-0KC03                 | 3SE5 132-0KD05      |                                     |    |
|                                  |                  |             |                  | Basic switches                 | 3SE5 132-0KA00      | 3SE5 132-0KA00                 | 3SE5 132-0KA00      |                                     |    |
|                                  |                  |             |                  | + Actuator heads               | 3SE5 000-0AB01      | 3SE5 000-0AC03                 | 3SE5 000-0AD05      |                                     |    |
|                                  |                  |             | M12 plug, 4-pole | Complete units                 | --                  | --                             | --                  | --                                  | -- |
|                                  |                  |             |                  | Basic switches                 | 3SE5 134-0KA00-1AE0 | 3SE5 134-0KA00-1AE0            | 3SE5 134-0KA00-1AE0 |                                     |    |
|                                  | Snap action      | None        | 1 x (M20 x 1.5)  | + Actuator heads               | 3SE5 000-0AB01      | 3SE5 000-0AC03                 | 3SE5 000-0AD05      |                                     |    |
|                                  |                  |             |                  | Complete units                 | --                  | 3SE5 132-OLC03                 | 3SE5 132-OLD05      |                                     |    |
|                                  |                  |             |                  | Basic switches                 | 3SE5 132-OLA00      | 3SE5 132-OLA00                 | 3SE5 132-OLA00      |                                     |    |
|                                  |                  |             | M12 plug, 4-pole | + Actuator heads               | 3SE5 000-0AB01      | 3SE5 000-0AC03                 | 3SE5 000-0AD05      |                                     |    |
| 2 NO/1 NC                        | Slow action      | None        | 1 x (M20 x 1.5)  | Complete units                 | 3SE5 132-OPB01      | 3SE5 132-OPC03                 | 3SE5 132-OPD05      |                                     |    |
|                                  |                  |             |                  | Basic switches                 | 3SE5 132-OFA00      | 3SE5 132-OFA00                 | 3SE5 132-OFA00      |                                     |    |
|                                  |                  |             |                  | + Actuator heads               | 3SE5 000-0AB01      | 3SE5 000-0AC03                 | 3SE5 000-0AD05      |                                     |    |
|                                  |                  |             |                  | Complete units                 | --                  | --                             | --                  | --                                  | -- |
| 1 NO/2 NC with make-before-break | Slow action      | None        | 1 x (M20 x 1.5)  | Basic switches                 | 3SE5 132-OMC05      | 3SE5 132-OMC05                 | 3SE5 132-OMC05      |                                     |    |
|                                  |                  |             |                  | + Actuator heads               | 3SE5 000-0AB01      | 3SE5 000-0AC03                 | 3SE5 000-0AD05      |                                     |    |
|                                  |                  |             |                  |                                | --                  | --                             | --                  | --                                  | -- |

For ordering notes see page 9.

|  | Roller levers   | Angular roller levers   | Spring rod actuators  |
|--|---|---|---|
|  |  |  |  |
| <b>Plastic plunger<br/>with high-grade<br/>steel roller<br/><math>\leftrightarrow v_{\max.} = 1 \text{ m/s}</math> ↗</b> | <b>Metal lever</b>  | <b>Metal lever</b>  | <b>Plastic plunger,<br/>total length 142.5 mm</b>                                 |
|  | <b>Plastic roller<br/><math>\leftarrow v_{\max.} = 2.5 \text{ m/s}</math> ↗</b>   | <b>Plastic roller<br/><math>\uparrow v_{\max.} = 2.5 \text{ m/s}</math> ↗</b>     | <b>Starting from any<br/>direction, <math>v_{\max.} = 1 \text{ m/s}</math></b>    |
| --   | 3SE5 132-0BE05  | 3SE5 132-0BF05  | --  |
| 3SE5 132-0BA00   | 3SE5 132-0BA00  | 3SE5 132-0BA00  | --  |
| 3SE5 000-OAD06   | 3SE5 000-OAE05  | 3SE5 000-OAF05  | --  |
| --   | --  | --  | --  |
| --   | --  | --  | --  |
| --   | --  | --  | --  |
| --   | 3SE5 132-0CE05  | 3SE5 132-0CF05  | 3SE5 132-0CR01  |
| 3SE5 132-0CA00   | 3SE5 132-0CA00  | 3SE5 132-0CA00  | 3SE5 132-0CA00  |
| 3SE5 000-OAD06   | 3SE5 000-OAE05  | 3SE5 000-OAF05  | 3SE5 000-OAR01  |
| --   | --  | --  | --  |
| --   | --  | --  | --  |
| --   | --  | --  | --  |
| --   | --  | --  | --  |
| --   | --  | --  | --  |
| --   | 3SE5 132-0KE05  | --  | --  |
| 3SE5 132-0KA00   | 3SE5 132-0KA00  | 3SE5 132-0KA00  | --  |
| 3SE5 000-OAD06   | 3SE5 000-OAE05  | 3SE5 000-OAF05  | --  |
| --   | --  | --  | --  |
| 3SE5 134-0KA00-1AE0  | 3SE5 134-0KA00-1AE0   | 3SE5 134-0KA00-1AE0   | --  |
| 3SE5 000-OAD06   | 3SE5 000-OAE05  | 3SE5 000-OAF05  | --  |
| --   | 3SE5 132-OLE05  | 3SE5 132-OLF05  | 3SE5 132-OLR01  |
| 3SE5 132-OLA00   | 3SE5 132-OLA00  | 3SE5 132-OLA00  | 3SE5 132-OLA00  |
| 3SE5 000-OAD06   | 3SE5 000-OAE05  | 3SE5 000-OAF05  | 3SE5 000-OAR01  |
| --   | --  | --  | --  |
| 3SE5 134-OLA00-1AE0  | 3SE5 134-OLA00-1AE0   | 3SE5 134-OLA00-1AE0   | 3SE5 134-OLA00-1AE0   |
| 3SE5 000-OAD06   | 3SE5 000-OAE05  | 3SE5 000-OAF05  | 3SE5 000-OAR01  |
| --   | 3SE5 132-OPE05  | --  | --  |
| 3SE5 132-OPA00   | 3SE5 132-OPA00  | 3SE5 132-OPA00  | --  |
| 3SE5 000-OAD06   | 3SE5 000-OAE05  | 3SE5 000-OAF05  | --  |
| --   | --  | --  | --  |
| 3SE5 132-OMC05   | 3SE5 132-OMC05  | 3SE5 132-OMC05  | --  |
| 3SE5 000-OAD06   | 3SE5 000-OAE05  | 3SE5 000-OAF05  | --  |

# Standard position switches

## Plastic enclosure, 40 mm

Operating points and mounting  
according to EN 50041, IP66/IP67

Complete unit and  
Module selection



Twist lever, type A

| Metal lever | High-grade steel lever |
|-------------|------------------------|
|-------------|------------------------|

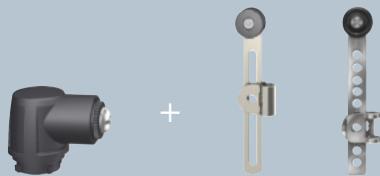
|                |                         |
|----------------|-------------------------|
| Plastic roller | High-grade steel roller |
|----------------|-------------------------|

|  |  |
|--|--|
| $\leftrightarrow v_{max.} = 1.5 \text{ m/s}$ | $\leftrightarrow v_{max.} = 1.5 \text{ m/s}$ |
|--|--|

| Contact blocks                   |                  | LED display      | Connection      | Twist lever, type A |                        |                     |
|----------------------------------|------------------|------------------|-----------------|---------------------|------------------------|---------------------|
| Contacts                         | Contact elements |                  |                 | Metal lever         | High-grade steel lever | Plastic roller      |
| 1 NO/1 NC                        | Slow action      | None             | 1 x (M20 x 1.5) | Complete units      | 3SE5 132-0BJ01         | --                  |
|                                  |                  |                  |                 | Basic switches      | 3SE5 132-0BA00         | 3SE5 132-0BA00      |
|                                  |                  |                  |                 | + Actuator heads    | 3SE5 000-0AJ00         | 3SE5 000-0AJ00      |
|                                  |                  | M12 plug, 4-pole | 1 x (M20 x 1.5) | Complete units      | 3SE5 000-0AA01         | 3SE5 000-0AA02      |
|                                  |                  |                  |                 | Basic switches      | --                     | --                  |
|                                  |                  |                  |                 | + Actuator heads    | --                     | --                  |
|                                  | Snap action      | None             | 1 x (M20 x 1.5) | Complete units      | 3SE5 132-0CJ01         | --                  |
|                                  |                  |                  |                 | Basic switches      | 3SE5 132-0CA00         | 3SE5 132-0CA00      |
|                                  |                  |                  |                 | + Actuator heads    | 3SE5 000-0AJ00         | 3SE5 000-0AJ00      |
|                                  |                  | M12 plug, 4-pole | 1 x (M20 x 1.5) | Complete units      | 3SE5 000-0AA01         | 3SE5 000-0AA02      |
|                                  |                  |                  |                 | Basic switches      | --                     | --                  |
|                                  |                  |                  |                 | + Actuator heads    | --                     | --                  |
| 1 NO/2 NC                        | Slow action      | None             | 1 x M20 x 1.5   | Complete units      | 3SE5 132-0KJ01         | --                  |
|                                  |                  |                  |                 | Basic switches      | 3SE5 132-0KA00         | 3SE5 132-0KA00      |
|                                  |                  |                  |                 | + Actuator heads    | 3SE5 000-0AJ00         | 3SE5 000-0AJ00      |
|                                  |                  | M12 plug, 4-pole | 1 x M20 x 1.5   | Complete units      | 3SE5 000-0AA01         | 3SE5 000-0AA02      |
|                                  |                  |                  |                 | Basic switches      | --                     | --                  |
|                                  |                  |                  |                 | + Actuator heads    | 3SE5 134-0KA00-1AE0    | 3SE5 134-0KA00-1AE0 |
|                                  | Snap action      | None             | 1 x (M20 x 1.5) | Complete units      | 3SE5 000-0AJ00         | 3SE5 000-0AJ00      |
|                                  |                  |                  |                 | Basic switches      | 3SE5 132-0LA00         | 3SE5 132-0LA00      |
|                                  |                  |                  |                 | + Actuator heads    | 3SE5 000-0AA01         | 3SE5 000-0AA02      |
|                                  |                  | M12 plug, 4-pole | 1 x (M20 x 1.5) | Complete units      | 3SE5 000-0AA01         | 3SE5 000-0AA11      |
|                                  |                  |                  |                 | Basic switches      | --                     | --                  |
|                                  |                  |                  |                 | + Twist levers      | 3SE5 134-OLA00-1AE0    | 3SE5 134-OLA00-1AE0 |
| 2 NO/1 NC                        | Slow action      | None             | 1 x (M20 x 1.5) | Complete units      | 3SE5 132-OPJ01         | --                  |
|                                  |                  |                  |                 | Basic switches      | 3SE5 132-OFA00         | 3SE5 132-OFA00      |
|                                  |                  |                  |                 | + Actuator heads    | 3SE5 000-0AJ00         | 3SE5 000-0AJ00      |
|                                  |                  |                  |                 | + Twist levers      | 3SE5 000-0AA01         | 3SE5 000-0AA02      |
| 1 NO/2 NC with make-before-break | Slow action      | None             | 1 x (M20 x 1.5) | Complete units      | --                     | --                  |
|                                  |                  |                  |                 | Basic switches      | 3SE5 132-OMC05         | 3SE5 132-OMC05      |
|                                  |                  |                  |                 | + Actuator heads    | 3SE5 000-0AJ00         | 3SE5 000-0AJ00      |
|                                  |                  |                  |                 | + Twist levers      | 3SE5 000-0AA01         | 3SE5 000-0AA02      |

For ordering notes see page 9.

## Twist actuators (switching right and/or left, adjustable)



| Length-adjustable twist lever  |                                |                                     | Rod actuator, 200 mm long, type D |                                |
|--------------------------------|--------------------------------|-------------------------------------|-----------------------------------|--------------------------------|
| Metal lever                    |                                |                                     | Aluminum                          | Plastic                        |
| Plastic roller                 | High-grade steel roller        | With latching holes, plastic roller | ↔ $v_{max.} = 1.5 \text{ m/s}$    | ↔ $v_{max.} = 1.5 \text{ m/s}$ |
| ↔ $v_{max.} = 1.5 \text{ m/s}$ | ↔ $v_{max.} = 1.5 \text{ m/s}$ | ↔ $v_{max.} = 1.5 \text{ m/s}$ ↗    | ↔ $v_{max.} = 1.5 \text{ m/s}$    | ↔ $v_{max.} = 1.5 \text{ m/s}$ |
| --                             | --                             | --                                  | --                                | --                             |
| 3SE5 132-0BA00                 | 3SE5 132-0BA00                 | 3SE5 132-0BA00                      | 3SE5 132-0BA00                    | 3SE5 132-0BA00                 |
| 3SE5 000-0AJ00                 | 3SE5 000-0AJ00                 | 3SE5 000-0AJ00                      | 3SE5 000-0AJ00                    | 3SE5 000-0AJ00                 |
| 3SE5 000-0AA50                 | 3SE5 000-0AA51                 | 3SE5 000-0AA60                      | 3SE5 000-0AA80                    | 3SE5 000-0AA82                 |
| --                             | --                             | --                                  | --                                | --                             |
| --                             | --                             | --                                  | --                                | --                             |
| --                             | --                             | --                                  | --                                | --                             |
| --                             | --                             | --                                  | --                                | --                             |
| 3SE5 132-0CJ50                 | --                             | 3SE5 132-0CJ60                      | 3SE5 132-0CJ80                    | 3SE5 132-0CJ82                 |
| 3SE5 132-0CA00                 | 3SE5 132-0CA00                 | 3SE5 132-0CA00                      | 3SE5 132-0CA00                    | 3SE5 132-0CA00                 |
| 3SE5 000-0AJ00                 | 3SE5 000-0AJ00                 | 3SE5 000-0AJ00                      | 3SE5 000-0AJ00                    | 3SE5 000-0AJ00                 |
| 3SE5 000-0AA50                 | 3SE5 000-0AA51                 | 3SE5 000-0AA60                      | 3SE5 000-0AA80                    | 3SE5 000-0AA82                 |
| --                             | --                             | --                                  | --                                | --                             |
| --                             | --                             | --                                  | --                                | --                             |
| --                             | --                             | --                                  | --                                | --                             |
| --                             | --                             | --                                  | --                                | --                             |
| --                             | --                             | --                                  | --                                | --                             |
| --                             | --                             | --                                  | --                                | --                             |
| --                             | --                             | --                                  | --                                | --                             |
| --                             | --                             | --                                  | --                                | --                             |
| --                             | --                             | --                                  | --                                | --                             |
| 3SE5 132-0KA00                 | 3SE5 132-0KA00                 | 3SE5 132-0KA00                      | 3SE5 132-0KA00                    | 3SE5 132-0KA00                 |
| 3SE5 000-0AJ00                 | 3SE5 000-0AJ00                 | 3SE5 000-0AJ00                      | 3SE5 000-0AJ00                    | 3SE5 000-0AJ00                 |
| 3SE5 000-0AA50                 | 3SE5 000-0AA51                 | 3SE5 000-0AA60                      | 3SE5 000-0AA80                    | 3SE5 000-0AA82                 |
| --                             | --                             | --                                  | --                                | --                             |
| 3SE5 134-0KA00-1AE0            | 3SE5 134-0KA00-1AE0            | 3SE5 134-0KA00-1AE0                 | 3SE5 134-0KA00-1AE0               | 3SE5 134-0KA00-1AE0            |
| 3SE5 000-0AJ00                 | 3SE5 000-0AJ00                 | 3SE5 000-0AJ00                      | 3SE5 000-0AJ00                    | 3SE5 000-0AJ00                 |
| 3SE5 000-0AA50                 | 3SE5 000-0AA51                 | 3SE5 000-0AA60                      | 3SE5 000-0AA80                    | 3SE5 000-0AA82                 |
| 3SE5 132-0LJ50                 | --                             | 3SE5 132-0LJ60                      | --                                | --                             |
| 3SE5 132-0LA00                 | 3SE5 132-0LA01                 | 3SE5 132-0LA00                      | 3SE5 132-0LA00                    | 3SE5 132-0LA00                 |
| 3SE5 000-0AJ00                 | 3SE5 000-0AJ00                 | 3SE5 000-0AJ00                      | 3SE5 000-0AJ00                    | 3SE5 000-0AJ00                 |
| 3SE5 000-0AA50                 | 3SE5 000-0AA51                 | 3SE5 000-0AA60                      | 3SE5 000-0AA80                    | 3SE5 000-0AA82                 |
| --                             | --                             | --                                  | --                                | --                             |
| 3SE5 134-0LA00-1AE0            | 3SE5 134-0LA00-1AE0            | 3SE5 134-0LA00-1AE0                 | 3SE5 134-0LA00-1AE0               | 3SE5 134-0LA00-1AE0            |
| 3SE5 000-0AJ00                 | 3SE5 000-0AJ00                 | 3SE5 000-0AJ00                      | 3SE5 000-0AJ00                    | 3SE5 000-0AJ00                 |
| 3SE5 000-0AA50                 | 3SE5 000-0AA51                 | 3SE5 000-0AA60                      | 3SE5 000-0AA80                    | 3SE5 000-0AA82                 |
| --                             | --                             | --                                  | --                                | --                             |
| 3SE5 132-0PA00                 | 3SE5 132-0PA00                 | 3SE5 132-0PA00                      | 3SE5 132-0PA00                    | 3SE5 132-0PA00                 |
| 3SE5 000-0AJ00                 | 3SE5 000-0AJ00                 | 3SE5 000-0AJ00                      | 3SE5 000-0AJ00                    | 3SE5 000-0AJ00                 |
| 3SE5 000-0AA50                 | 3SE5 000-0AA51                 | 3SE5 000-0AA60                      | 3SE5 000-0AA80                    | 3SE5 000-0AA82                 |
| --                             | --                             | --                                  | --                                | --                             |
| 3SE5 132-0MC05                 | 3SE5 132-0MC05                 | 3SE5 132-0MC05                      | 3SE5 132-0MC05                    | 3SE5 132-0MC05                 |
| 3SE5 000-0AJ00                 | 3SE5 000-0AJ00                 | 3SE5 000-0AJ00                      | 3SE5 000-0AJ00                    | 3SE5 000-0AJ00                 |
| 3SE5 000-0AA50                 | 3SE5 000-0AA51                 | 3SE5 000-0AA60                      | 3SE5 000-0AA80                    | 3SE5 000-0AA82                 |

**Standard position switches**  
**Plastic enclosure, 50 mm**  
 Operating points according to  
 EN 50047, IP66/IP67

Complete unit and  
 Module selection



| Contact blocks                   |   | LED display                   | Connection      | Rounded plungers                           |   | Roller plungers |                         |
|----------------------------------|---|-------------------------------|-----------------|--|---|-----------------|-------------------------|
| Contacts                         | Contact elements                                    |                               |                 | Protective cap (optional)<br>3SE5000-0AC30 | Teflon plunger integrated in basic switch<br>$\downarrow v_{\max.} = 1 \text{ m/s}$ | Plastic roller  | High-grade steel roller |
| 1 NO/1 NC                        | Slow action   | None                          | 2 x (M20 x 1.5) | Complete units                             | 3SE5 242-0BC05  | 3SE5 242-0BD03  | --                      |
|                                  |   |                               |                 | Basic switches                             | --  | 3SE5 242-0BC05  | 3SE5 242-0BC05          |
|                                  |   |                               |                 | + Actuator heads                           | --  | 3SE5 000-0AD03  | 3SE5 000-0AD04          |
|                                  | Snap action integrated, not replaceable             | None                          | 2 x (M20 x 1.5) | Complete units                             | 3SE5 242-0HC05  | 3SE5 242-0HD03  | --                      |
|                                  |   |                               |                 | Basic switches                             | --  | 3SE5 242-0HC05  | 3SE5 242-0HC05          |
|                                  |   |                               |                 | + Actuator heads                           | --  | 3SE5 000-0AD03  | 3SE5 000-0AD04          |
|                                  | Snap action Short stroke Integrated Not replaceable | None                          |                 | Complete units                             | 3SE5 242-0FC05  | --              | --                      |
|                                  |   |                               |                 | Basic switches                             | --  | 3SE5 242-0FC05  | 3SE5 242-0FC05          |
|                                  |   |                               |                 | + Actuator heads                           | --  | 3SE5 000-0AD03  | 3SE5 000-0AD04          |
| 1 NO/2 NC                        | Slow action   | None                          | 2 x (M20 x 1.5) | Complete units                             | 3SE5 242-0KC05  | --              | --                      |
|                                  |   |                               |                 | Basic switches                             | --  | 3SE5 242-0KC05  | 3SE5 242-0KC05          |
|                                  |   |                               |                 | + Actuator heads                           | --  | 3SE5 000-0AD03  | 3SE5 000-0AD04          |
|                                  |   |                               |                 | Complete units                             | 3SE5 242-1KC05  | --              | --                      |
|                                  | Snap action   | 2 LEDs, yellow/green, 24 V DC | 2 x (M20 x 1.5) | Basic switches                             | --  | 3SE5 242-1KC05  | 3SE5 242-1KC05          |
|                                  |   |                               |                 | + Actuator heads                           | --  | 3SE5 000-0AD03  | 3SE5 000-0AD04          |
|                                  |   |                               |                 | Complete units                             | 3SE5 242-0LC05  | 3SE5 242-0LD03  | --                      |
|                                  |   |                               |                 | Basic switches                             | --  | 3SE5 242-0LC05  | 3SE5 242-0LC05          |
| 2 NO/1 NC                        | Slow action   | None                          | 1 x (M20 x 1.5) | + Actuator heads                           | --  | 3SE5 000-0AD03  | 3SE5 000-0AD04          |
|                                  |   |                               |                 | Complete units                             | 3SE5 242-0PC05  | --              | --                      |
|                                  |   |                               |                 | Basic switches                             | --  | 3SE5 242-0PC05  | 3SE5 242-0PC05          |
|                                  |   |                               |                 | + Actuator heads                           | --  | 3SE5 000-0AD03  | 3SE5 000-0AD04          |
| 1 NO/2 NC With make-before-break | Slow action   | None                          | 1 x (M20 x 1.5) | Complete units                             | 3SE5 242-0MC05  | --              | --                      |
|                                  |   |                               |                 | Basic switches                             | --  | 3SE5 242-0MC05  | 3SE5 242-0MC05          |
|                                  |   |                               |                 | + Actuator heads                           | --  | 3SE5 000-0AD03  | 3SE5 000-0AD04          |
|                                  |   |                               |                 |  |   |                 |                         |

For ordering notes see page 9.

|  | Roller levers   |  | Angular roller levers                                 |  |
|--|---|--|---|--|
|  |  |  |   |  |
| Plastic roller,<br>central fixing<br>$\leftrightarrow v_{\max.} = 1 \text{ m/s}$ ↗ | Metal lever<br>$\leftarrow v_{\max.} = 1 \text{ m/s}$ ↗                           | High-grade steel lever<br>$\leftarrow v_{\max.} = 1 \text{ m/s}$ ↗                 | Metal lever<br>$\uparrow v_{\max.} = 1 \text{ m/s}$ ↗ | High-grade steel lever<br>$\uparrow v_{\max.} = 1 \text{ m/s}$ ↗ |
| --   | 3SE5 242-0BE10  | --   | --  | --   |
| 3SE5 242-0BC05   | 3SE5 242-0BC05  | 3SE5 242-0BC05   | 3SE5 242-0BC05  | 3SE5 242-0BC05   |
| 3SE5 000-0AD10   | 3SE5 000-0AE10  | 3SE5 000-0AE12   | 3SE5 000-0AF10  | 3SE5 000-0AF12   |
|  |   |  |   |  |
| --   | 3SE5 242-0HE10  | --   | --  | --   |
| 3SE5 242-0HC05   | 3SE5 242-0HC05  | 3SE5 242-0HC05   | 3SE5 242-0HC05  | 3SE5 242-0HC05   |
| 3SE5 000-0AD10   | 3SE5 000-0AE10  | 3SE5 000-0AE12   | 3SE5 000-0AF10  | 3SE5 000-0AF12   |
|  |   |  |   |  |
| --   | --  | --   | --  | --   |
| 3SE5 242-0FC05   | 3SE5 242-0FC05  | 3SE5 242-0FC05   | 3SE5 242-0FC05  | 3SE5 242-0FC05   |
| 3SE5 000-0AD10   | 3SE5 000-0AE10  | 3SE5 000-0AE12   | 3SE5 000-0AF10  | 3SE5 000-0AF12   |
|  |   |  |   |  |
| --   | --  | --   | --  | --   |
| 3SE5 242-0KC05   | 3SE5 242-0KC05  | 3SE5 242-0KC05   | 3SE5 242-0KC05  | 3SE5 242-0KC05   |
| 3SE5 000-0AD10   | 3SE5 000-0AE10  | 3SE5 000-0AE12   | 3SE5 000-0AF10  | 3SE5 000-0AF12   |
|  |   |  |   |  |
| --   | --  | --   | --  | --   |
| 3SE5 242-1KC05   | 3SE5 242-1KC05  | 3SE5 242-1KC05   | 3SE5 242-1KC05  | 3SE5 242-1KC05   |
| 3SE5 000-0AD10   | 3SE5 000-0AE10  | 3SE5 000-0AE12   | 3SE5 000-0AF10  | 3SE5 000-0AF12   |
|  |   |  |   |  |
| --   | 3SE5 242-0LE10  | --   | --  | --   |
| 3SE5 242-0LC05   | 3SE5 242-0LC05  | 3SE5 242-0LC05   | 3SE5 242-0LC05  | 3SE5 242-0LC05   |
| 3SE5 000-0AD10   | 3SE5 000-0AE10  | 3SE5 000-0AE12   | 3SE5 000-0AF10  | 3SE5 000-0AF12   |
|  |   |  |   |  |
| --   | --  | --   | --  | --   |
| 3SE5 242-1LC05   | 3SE5 242-1LC05  | 3SE5 242-1LC05   | 3SE5 242-1LC05  | 3SE5 242-1LC05   |
| 3SE5 000-0AD10   | 3SE5 000-0AE10  | 3SE5 000-0AE12   | 3SE5 000-0AF10  | 3SE5 000-0AF12   |
|  |   |  |   |  |
| --   | --  | --   | --  | --   |
| 3SE5 242-0PC05   | 3SE5 242-0PC05  | 3SE5 242-0PC05   | 3SE5 242-0PC05  | 3SE5 242-0PC05   |
| 3SE5 000-0AD10   | 3SE5 000-0AE10  | 3SE5 000-0AE12   | 3SE5 000-0AF10  | 3SE5 000-0AF12   |
|  |   |  |   |  |
| --   | --  | --   | --  | --   |
| 3SE5 242-0MC05   | 3SE5 242-0MC05  | 3SE5 242-0MC05   | 3SE5 242-0MC05  | 3SE5 242-0MC05   |
| 3SE5 000-0AD10   | 3SE5 000-0AE10  | 3SE5 000-0AE12   | 3SE5 000-0AF10  | 3SE5 000-0AF12   |
|  |   |  |   |  |

**Standard position switches**  
**Plastic enclosure, 50 mm**  
 Operating points according to  
 EN 50047, IP66/IP67

Complete unit and  
 Module selection



| Contact blocks                   |   | LED display                   | Connection      | Spring rod actuators                                    |                                   |
|----------------------------------|---|-------------------------------|-----------------|---|-----------------------------------|
| Contacts                         | Contact elements                                    |                               |                 | Starting from any direction, $v_{max.} = 1 \text{ m/s}$ | Twist lever according to EN 50047 |
| 1 NO/1 NC                        | Slow action   | None                          | 2 x (M20 x 1.5) | Complete units  | --                                |
|                                  |   |                               |                 | Basic switches  | --                                |
|                                  |   |                               |                 | + Actuator heads  | --                                |
|                                  |   |                               |                 | + Twist levers  | --                                |
|                                  | Snap action integrated, not replaceable             | None                          | 2 x (M20 x 1.5) | Complete units  | --                                |
|                                  |   |                               |                 | Basic switches  | 3SE5 242-0HC05                    |
|                                  |   |                               |                 | + Actuator heads  | 3SE5 000-OAR01                    |
|                                  |   |                               |                 | + Twist levers  | --                                |
|                                  | Snap action Short stroke Integrated Not replaceable | None                          |                 | Complete units  | --                                |
|                                  |   |                               |                 | Basic switches  | 3SE5 242-0FC05                    |
|                                  |   |                               |                 | + Actuator heads  | 3SE5 000-OAR01                    |
|                                  |   |                               |                 | + Twist levers  | --                                |
| 1 NO/2 NC                        | Slow action   | None                          | 2 x (M20 x 1.5) | Complete units  | --                                |
|                                  |   |                               |                 | Basic switches  | --                                |
|                                  |   |                               |                 | + Actuator heads  | --                                |
|                                  |   |                               |                 | + Twist levers  | --                                |
|                                  |   | 2 LEDs, yellow/green 24 V DC  |                 | Complete units  | --                                |
|                                  |   |                               |                 | Basic switches  | 3SE5 242-1KC05                    |
|                                  | Snap action   | None                          | 2 x (M20 x 1.5) | + Actuator heads  | --                                |
|                                  |   |                               |                 | + Twist levers  | --                                |
|                                  |   | 2 LEDs, yellow/green, 24 V DC |                 | Complete units  | --                                |
|                                  |   |                               |                 | Basic switches  | 3SE5 242-1LC05                    |
|                                  |   |                               |                 | + Actuator heads  | 3SE5 000-OAR01                    |
|                                  |   |                               |                 | + Twist levers  | --                                |
| 2 NO/1 NC                        | Slow action   | None                          | 1 x (M20 x 1.5) | Complete units  | 3SE5 242-OPC05                    |
|                                  |   |                               |                 | Basic switches  | --                                |
|                                  |   |                               |                 | + Actuator heads  | 3SE5 000-OAR01                    |
|                                  |   |                               |                 | + Twist levers  | --                                |
| 1 NO/2 NC With make-before-break | Slow action   | None                          | 1 x (M20 x 1.5) | Complete units  | 3SE5 242-OMC05                    |
|                                  |   |                               |                 | Basic switches  | --                                |
|                                  |   |                               |                 | + Actuator heads  | 3SE5 000-OAR01                    |
|                                  |   |                               |                 | + Twist levers  | --                                |

For ordering notes see page 9.

## Twist actuators (switching right and/or left, adjustable)



Length-adjustable twist lever

Rod actuator, 200 mm long

| Metal lever                                      |   |  | Aluminum                     | Plastic                      |
|--|---|--|------------------------------|------------------------------|
| Plastic roller<br>↔ $v_{max.} = 1.5 \text{ m/s}$ | High-grade steel roller<br>↔ $v_{max.} = 1.5 \text{ m/s}$ | With latching holes,<br>plastic roller<br>↔ $v_{max.} = 1.5 \text{ m/s}$ | ↔ $v_{max.} = 1 \text{ m/s}$ | ↔ $v_{max.} = 1 \text{ m/s}$ |
| --   | --  | --   | --                           | --                           |
| 3SE5 242-0BC05                                   | 3SE5 242-0BC05  | 3SE5 242-0BC05   | 3SE5 242-0BC05               | 3SE5 242-0BC05               |
| 3SE5 000-0AK00                                   | 3SE5 000-0AK00  | 3SE5 000-0AK00   | 3SE5 000-0AK00               | 3SE5 000-0AK00               |
| 3SE5 000-0AA50                                   | 3SE5 000-0AA51  | 3SE5 000-0AA60   | 3SE5 000-0AA80               | 3SE5 000-0AA82               |
| 3SE5 242-0HK50                                   | --  | --   | --                           | --                           |
| 3SE5 242-0HC05                                   | 3SE5 242-0HC05  | 3SE5 242-0HC05   | 3SE5 242-0HC05               | 3SE5 242-0HC05               |
| 3SE5 000-0AK00                                   | 3SE5 000-0AK00  | 3SE5 000-0AK00   | 3SE5 000-0AK00               | 3SE5 000-0AK00               |
| 3SE5 000-0AA50                                   | 3SE5 000-0AA51  | 3SE5 000-0AA60   | 3SE5 000-0AA80               | 3SE5 000-0AA82               |
| --   | --  | --   | --                           | --                           |
| 3SE5 242-0FC05                                   | 3SE5 242-0FC05  | 3SE5 242-0FC05   | 3SE5 242-0FC05               | 3SE5 242-0FC05               |
| 3SE5 000-0AK00                                   | 3SE5 000-0AK00  | 3SE5 000-0AK00   | 3SE5 000-0AK00               | 3SE5 000-0AK00               |
| 3SE5 000-0AA50                                   | 3SE5 000-0AA51  | 3SE5 000-0AA60   | 3SE5 000-0AA80               | 3SE5 000-0AA82               |
| --   | --  | --   | --                           | --                           |
| 3SE5 242-0KC05                                   | 3SE5 242-0KC05  | 3SE5 242-0KC05   | 3SE5 242-0KC05               | 3SE5 242-0KC05               |
| 3SE5 000-0AK00                                   | 3SE5 000-0AK00  | 3SE5 000-0AK00   | 3SE5 000-0AK00               | 3SE5 000-0AK00               |
| 3SE5 000-0AA50                                   | 3SE5 000-0AA51  | 3SE5 000-0AA60   | 3SE5 000-0AA80               | 3SE5 000-0AA82               |
| --   | --  | --   | --                           | --                           |
| 3SE5 242-1KC05                                   | 3SE5 242-1KC05  | 3SE5 242-1KC05   | 3SE5 242-1KC05               | 3SE5 242-1KC05               |
| 3SE5 000-0AK00                                   | 3SE5 000-0AK00  | 3SE5 000-0AK00   | 3SE5 000-0AK00               | 3SE5 000-0AK00               |
| 3SE5 000-0AA50                                   | 3SE5 000-0AA51  | 3SE5 000-0AA60   | 3SE5 000-0AA80               | 3SE5 000-0AA82               |
| --   | --  | --   | --                           | --                           |
| 3SE5 242-0LC05                                   | 3SE5 242-0LC05  | 3SE5 242-0LC05   | 3SE5 242-0LC05               | 3SE5 242-0LC05               |
| 3SE5 000-0AK00                                   | 3SE5 000-0AK00  | 3SE5 000-0AK00   | 3SE5 000-0AK00               | 3SE5 000-0AK00               |
| 3SE5 000-0AA50                                   | 3SE5 000-0AA51  | 3SE5 000-0AA60   | 3SE5 000-0AA80               | 3SE5 000-0AA82               |
| --   | --  | --   | --                           | --                           |
| 3SE5 242-1LC05                                   | 3SE5 242-1LC05  | 3SE5 242-1LC05   | 3SE5 242-1LC05               | 3SE5 242-1LC05               |
| 3SE5 000-0AK00                                   | 3SE5 000-0AK00  | 3SE5 000-0AK00   | 3SE5 000-0AK00               | 3SE5 000-0AK00               |
| 3SE5 000-0AA50                                   | 3SE5 000-0AA51  | 3SE5 000-0AA60   | 3SE5 000-0AA80               | 3SE5 000-0AA82               |
| --   | --  | --   | --                           | --                           |
| 3SE5 242-OPC05                                   | 3SE5 242-OPC05  | 3SE5 242-OPC05   | 3SE5 242-OPC05               | 3SE5 242-OPC05               |
| 3SE5 000-0AK00                                   | 3SE5 000-0AK00  | 3SE5 000-0AK00   | 3SE5 000-0AK00               | 3SE5 000-0AK00               |
| 3SE5 000-0AA50                                   | 3SE5 000-0AA51  | 3SE5 000-0AA60   | 3SE5 000-0AA80               | 3SE5 000-0AA82               |
| --   | --  | --   | --                           | --                           |
| 3SE5 242-0MC05                                   | 3SE5 242-0MC05  | 3SE5 242-0MC05   | 3SE5 242-0MC05               | 3SE5 242-0MC05               |
| 3SE5 000-0AK00                                   | 3SE5 000-0AK00  | 3SE5 000-0AK00   | 3SE5 000-0AK00               | 3SE5 000-0AK00               |
| 3SE5 000-0AA50                                   | 3SE5 000-0AA51  | 3SE5 000-0AA60   | 3SE5 000-0AA80               | 3SE5 000-0AA82               |

# Standard position switches

## Metal enclosure, 31 mm

Operating points and mounting  
according to EN 50047, IP66/IP67

Complete unit and  
Module selection



| Rounded plungers,<br>type B  | Plain plungers   |  |
|--|--|--|
| Protective cap (optional)<br>3SE5000-0AC30   |  |  |
| Teflon plunger<br>integrated in basic<br>switch<br>$\downarrow v_{max.} = 1 \text{ m/s}$ ↗ | High-grade steel<br>plunger<br>$\downarrow v_{max.} = 1.5 \text{ m/s}$ ↗ | Plastic roller<br>$\leftrightarrow v_{max.} = 1 \text{ m/s}$ ↗ |

| Contact blocks                      | Contacts   | Contact elements                        | LED display                             | Connection       | Complete units      | 3SE5 212-0BC05      | 3SE5 212-0BB01      | 3SE5 212-0BD03 |
|-------------------------------------|--|---|---|------------------|---------------------|---------------------|---------------------|----------------|
| 1 NO/1 NC                           | Slow action  | None                                    | 1 x (M20 x 1.5)                         | Complete units   | 3SE5 212-0BC05      | 3SE5 212-0BB01      | 3SE5 212-0BD03      |                |
|                                     |  |   |   | Basic switches   |                     | 3SE5 212-0BC05      | 3SE5 212-0BC05      |                |
|                                     |  |   |   | + Actuator heads |                     | 3SE5 000-0AB01      | 3SE5 000-0AD03      |                |
|                                     |  | M12 plug,<br>5-pole                     | 1 x (M20 x 1.5)                         | Complete units   | 3SE5 214-0BC05-1AC5 | --                  | --                  |                |
|                                     |  |   |   | Basic switches   |                     | 3SE5 214-0BC05-1AC5 | 3SE5 214-0BC05-1AC5 |                |
|                                     |  |   |   | + Actuator heads |                     | 3SE5 000-0AB01      | 3SE5 000-0AD03      |                |
|                                     | Snap action<br>integrated,<br>not replaceable                | None                                    | 1 x (M20 x 1.5)                         | Complete units   | 3SE5 212-0CC05      | 3SE5 212-0CB01      | 3SE5 212-0CD03      |                |
|                                     |  |   |   | Basic switches   |                     | 3SE5 212-0CC05      | 3SE5 212-0CC05      |                |
|                                     |  |   |   | + Actuator heads |                     | 3SE5 000-0AB01      | 3SE5 000-0AD03      |                |
|                                     |  | M12 plug,<br>5-pole                     | 1 x (M20 x 1.5)                         | Complete units   | 3SE5 214-0CC05-1AC5 | --                  | --                  |                |
|                                     |  |   |   | Basic switches   |                     | 3SE5 214-0CC05-1AC5 | 3SE5 214-0CC05-1AC5 |                |
|                                     |  |   |   | + Actuator heads |                     | 3SE5 000-0AB01      | 3SE5 000-0AD03      |                |
|                                     | Snap action<br>Short stroke<br>Integrated<br>Not replaceable | None                                    | 1 x (M20 x 1.5)                         | Complete units   |                     | --                  | --                  |                |
|                                     |  |   |   | Basic switches   |                     | --                  | --                  |                |
|                                     |  |   |   | + Actuator heads |                     | --                  | --                  |                |
| 1 NO/2 NC                           | Slow action  | None                                    | 1 x (M20 x 1.5)                         | Complete units   | 3SE5 212-0KC05      | 3SE5 212-0KB01      | 3SE5 212-0KD03      |                |
|                                     |  |   |   | Basic switches   |                     | 3SE5 212-0KC05      | 3SE5 212-0KC05      |                |
|                                     |  |   |   | + Actuator heads |                     | 3SE5 000-0AB01      | 3SE5 000-0AD03      |                |
|                                     |  | M12 plug,<br>5-pole<br>(2 NC connected) | 1 x (M20 x 1.5)                         | Complete units   | 3SE5 214-0KC05-1AE1 | --                  | --                  |                |
|                                     |  |   |   | Basic switches   |                     | 3SE5 214-0KC05-1AE1 | 3SE5 214-0KC05-1AE1 |                |
|                                     |  |   |   | + Actuator heads |                     | 3SE5 000-0AB01      | 3SE5 000-0AD03      |                |
|                                     | Snap action  | None                                    | 1 x (M20 x 1.5)                         | Complete units   | 3SE5 212-0LC05      | 3SE5 212-0LB01      | 3SE5 212-0LD03      |                |
|                                     |  |   |   | Basic switches   |                     | 3SE5 212-0LC05      | 3SE5 212-0LC05      |                |
|                                     |  |   |   | + Actuator heads |                     | 3SE5 000-0AB01      | 3SE5 000-0AD03      |                |
|                                     |  | 2 LEDs,<br>yellow/<br>green<br>24 V DC  | 1 x (M20 x 1.5)                         | Complete units   | 3SE5 212-1LC05      | --                  | --                  |                |
|                                     |  |   |   | Basic switches   |                     | 3SE5 212-1LC05      | 3SE5 212-1LC05      |                |
|                                     |  |   |   | + Actuator heads |                     | 3SE5 000-0AB01      | 3SE5 000-0AD03      |                |
|                                     |  | None                                    | M12 plug,<br>5-pole<br>(2 NC connected) | Complete units   | 3SE5 214-0LC05-1AE1 | --                  | --                  |                |
|                                     |  |   |   | Basic switches   |                     | 3SE5 214-0LC05-1AE1 | 3SE5 214-0LC05-1AE1 |                |
|                                     |  |   |   | + Actuator heads |                     | 3SE5 000-0AB01      | 3SE5 000-0AD03      |                |
| 2 NO/1 NC                           | Slow action  | None                                    | 1 x (M20 x 1.5)                         | Complete units   | 3SE5 212-0PC05      | --                  | --                  |                |
|                                     |  |   |   | Basic switches   |                     | 3SE5 212-0PC05      | 3SE5 212-0PC05      |                |
|                                     |  |   |   | + Actuator heads |                     | 3SE5 000-0AB01      | 3SE5 000-0AD03      |                |
| 1 NO/2 NC<br>With make-before-break | Slow action  | None                                    | 1 x (M20 x 1.5)                         | Complete units   | 3SE5 212-0MC05      | --                  | --                  |                |
|                                     |  |   |   | Basic switches   |                     | 3SE5 212-0MC05      | 3SE5 212-0MC05      |                |
|                                     |  |   |   | + Actuator heads |                     | 3SE5 000-0AB01      | 3SE5 000-0AD03      |                |

For ordering notes see page 9.

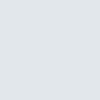
| Roller plungers, type C  |   | Roller levers, type E   |  |   | Angular roller levers                  |  |
|--|---|---|--|---|--|--|
|  |   |  |  |  |  |  |
| High-grade steel roller  | Plastic roller, central fixing                | Metal lever   | High-grade steel lever                   | Metal lever   | High-grade steel lever                 |  |
| $\leftrightarrow v_{\max.} = 1 \text{ m/s}$ ↗                                    | $\leftrightarrow v_{\max.} = 1 \text{ m/s}$ ↗ | Plastic roller  | High-grade steel roller                  | Plastic roller  | Plastic roller                         | Plastic roller                         |
| $\leftarrow v_{\max.} = 1 \text{ m/s}$ ↘   | $\leftarrow v_{\max.} = 1 \text{ m/s}$ ↘      | $\leftarrow v_{\max.} = 1 \text{ m/s}$ ↘  | $\leftarrow v_{\max.} = 1 \text{ m/s}$ ↘ | $\leftarrow v_{\max.} = 1 \text{ m/s}$ ↘  | $\uparrow v_{\max.} = 1 \text{ m/s}$ ↗ | $\uparrow v_{\max.} = 1 \text{ m/s}$ ↗ |
| --   | --  | 3SE5 212-0BE10  | --                                       | --  | 3SE5 212-0BF10                         | --                                     |
| 3SE5 212-0BC05   | 3SE5 212-0BC05                                | 3SE5 212-0BC05  | 3SE5 212-0BC05                           | 3SE5 212-0BC05  | 3SE5 212-0BC05                         | 3SE5 212-0BC05                         |
| 3SE5 000-0AD04   | 3SE5 000-0AD10                                | 3SE5 000-0AE10  | 3SE5 000-0AE11                           | 3SE5 000-0AE12  | 3SE5 000-0AF10                         | 3SE5 000-0AF12                         |
| --   | --  | --  | --                                       | --  | --                                     | --                                     |
| 3SE5 214-0BC05-1AC5  | 3SE5 214-0BC05-1AC5                           | 3SE5 214-0BC05-1AC5   | 3SE5 214-0BC05-1AC5                      | 3SE5 214-0BC05-1AC5   | 3SE5 214-0BC05-1AC5                    | 3SE5 214-0BC05-1AC5                    |
| 3SE5 000-0AD04   | 3SE5 000-0AD10                                | 3SE5 000-0AE10  | 3SE5 000-0AE11                           | 3SE5 000-0AE12  | 3SE5 000-0AF10                         | 3SE5 000-0AF12                         |
| --   | --  | 3SE5 212-0CE10  | --                                       | --  | 3SE5 212-0CF10                         | --                                     |
| 3SE5 212-0CC05   | 3SE5 212-0CC05                                | 3SE5 212-0CC05  | 3SE5 212-0CC05                           | 3SE5 212-0CC05  | 3SE5 212-0CC05                         | 3SE5 212-0CC05                         |
| 3SE5 000-0AD04   | 3SE5 000-0AD10                                | 3SE5 000-0AE10  | 3SE5 000-0AE11                           | 3SE5 000-0AE12  | 3SE5 000-0AF10                         | 3SE5 000-0AF12                         |
| --   | --  | --  | --                                       | --  | --                                     | --                                     |
| 3SE5 214-0CC05-1AC5  | 3SE5 214-0CC05-1AC5                           | 3SE5 214-0CC05-1AC5   | 3SE5 214-0CC05-1AC5                      | 3SE5 214-0CC05-1AC5   | 3SE5 214-0CC05-1AC5                    | 3SE5 214-0CC05-1AC5                    |
| 3SE5 000-0AD04   | 3SE5 000-0AD10                                | 3SE5 000-0AE10  | 3SE5 000-0AE11                           | 3SE5 000-0AE12  | 3SE5 000-0AF10                         | 3SE5 000-0AF12                         |
| --   | --  | --  | --                                       | --  | --                                     | --                                     |
| --   | --  | --  | --                                       | --  | --                                     | --                                     |
| --   | --  | --  | --                                       | --  | --                                     | --                                     |
| --   | --  | 3SE5 212-0KE10  | --                                       | --  | 3SE5 212-0KF10                         | --                                     |
| 3SE5 212-0KC05   | 3SE5 212-0KC05                                | 3SE5 212-0KC05  | 3SE5 212-0KC05                           | 3SE5 212-0KC05  | 3SE5 212-0KC05                         | 3SE5 212-0KC05                         |
| 3SE5 000-0AD04   | 3SE5 000-0AD10                                | 3SE5 000-0AE10  | 3SE5 000-0AE11                           | 3SE5 000-0AE12  | 3SE5 000-0AF10                         | 3SE5 000-0AF12                         |
| --   | --  | --  | --                                       | --  | --                                     | --                                     |
| 3SE5 214-0KC05-1AE1  | 3SE5 214-0KC05-1AE1                           | 3SE5 214-0KC05-1AE1   | 3SE5 214-0KC05-1AE1                      | 3SE5 214-0KC05-1AE1   | 3SE5 214-0KC05-1AE1                    | 3SE5 214-0KC05-1AE1                    |
| 3SE5 000-0AD04   | 3SE5 000-0AD10                                | 3SE5 000-0AE10  | 3SE5 000-0AE11                           | 3SE5 000-0AE12  | 3SE5 000-0AF10                         | 3SE5 000-0AF12                         |
| --   | --  | 3SE5 212-0LE10  | --                                       | --  | 3SE5 212-0LF10                         | --                                     |
| 3SE5 212-0LC05   | 3SE5 212-0LC05                                | 3SE5 212-0LC05  | 3SE5 212-0LC05                           | 3SE5 212-0LC05  | 3SE5 212-0LC05                         | 3SE5 212-0LC05                         |
| 3SE5 000-0AD04   | 3SE5 000-0AD10                                | 3SE5 000-0AE10  | 3SE5 000-0AE11                           | 3SE5 000-0AE12  | 3SE5 000-0AF10                         | 3SE5 000-0AF12                         |
| --   | --  | --  | --                                       | --  | --                                     | --                                     |
| 3SE5 212-1LC05   | 3SE5 212-1LC05                                | 3SE5 212-1LC05  | 3SE5 212-1LC05                           | 3SE5 212-1LC05  | 3SE5 212-1LC05                         | 3SE5 212-1LC05                         |
| 3SE5 000-0AD04   | 3SE5 000-0AD10                                | 3SE5 000-0AE10  | 3SE5 000-0AE11                           | 3SE5 000-0AE12  | 3SE5 000-0AF10                         | 3SE5 000-0AF12                         |
| --   | --  | --  | --                                       | --  | --                                     | --                                     |
| 3SE5 214-0LC05-1AE1  | 3SE5 214-0LC05-1AE1                           | 3SE5 214-0LC05-1AE1   | 3SE5 214-0LC05-1AE1                      | 3SE5 214-0LC05-1AE1   | 3SE5 214-0LC05-1AE1                    | 3SE5 214-0LC05-1AE1                    |
| 3SE5 000-0AD04   | 3SE5 000-0AD10                                | 3SE5 000-0AE10  | 3SE5 000-0AE11                           | 3SE5 000-0AE12  | 3SE5 000-0AF10                         | 3SE5 000-0AF12                         |
| --   | --  | --  | --                                       | --  | --                                     | --                                     |
| 3SE5 212-0PC05   | 3SE5 212-0PC05                                | 3SE5 212-0PC05  | 3SE5 212-0PC05                           | 3SE5 212-0PC05  | 3SE5232-0PC05                          | 3SE5 212-0PC05                         |
| 3SE5 000-0AD04   | 3SE5 000-0AD10                                | 3SE5 000-0AE10  | 3SE5 000-0AE11                           | 3SE5 000-0AE12  | 3SE5 000-0AF10                         | 3SE5 000-0AF12                         |
| --   | --  | --  | --                                       | --  | --                                     | --                                     |
| 3SE5 212-0MC05   | 3SE5 212-0MC05                                | 3SE5 212-0MC05  | 3SE5 212-0MC05                           | 3SE5 212-0MC05  | 3SE5 212-0MC05                         | 3SE5 212-0MC05                         |
| 3SE5 000-0AD04   | 3SE5 000-0AD10                                | 3SE5 000-0AE10  | 3SE5 000-0AE11                           | 3SE5 000-0AE12  | 3SE5 000-0AF10                         | 3SE5 000-0AF12                         |

# Standard position switches

## Metal enclosure, 31 mm

Operating points and mounting  
according to EN 50047, IP66/IP67

Complete unit and  
Module selection

| Contact blocks  |  | LED display | Connection                          | Spring rod actuators                      |                     |                        |  |
|---|--|-------------|-------------------------------------|---|---------------------|------------------------|--|
| Contacts  | Contact elements                           |             |                                     | Plastic plunger,<br>Total length 142.5 mm | Metal lever         | High-grade steel lever |  |
|    | Slow action                                | None        | 1 x (M20 x 1.5)                     | Complete units                            | --                  | 3SE5 212-0BK21         |  |
|   |  |             |                                     | Basic switches                            | --                  | 3SE5 212-0BC05         |  |
|   |  |             |                                     | + Actuator heads                          | --                  | 3SE5 000-0AK00         |  |
|   |  |             |                                     | + Twist levers                            | --                  | 3SE5 000-0AA21         |  |
|   |  |             |                                     | Complete units                            | --                  | 3SE5 212-0CK21         |  |
|   |  |             | M12 plug,<br>4-pole                 | Basic switches                            | --                  | 3SE5 212-0CC05         |  |
|   |  |             |                                     | + Actuator heads                          | 3SE5 000-OAR01      | 3SE5 000-0AK00         |  |
|   |  |             |                                     | + Twist levers                            | --                  | 3SE5 000-0AA21         |  |
|   |  |             |                                     | Complete units                            | --                  | 3SE5 212-0CC05-1AC5    |  |
|   | Snap action integrated,<br>not replaceable | None        | 1 x (M20 x 1.5)                     | Basic switches                            | 3SE5 214-0CC05-1AC5 | 3SE5 214-0CC05-1AC5    |  |
|   |  |             |                                     | + Actuator heads                          | 3SE5 000-OAR01      | 3SE5 000-0AK00         |  |
|   |  |             |                                     | + Twist levers                            | --                  | 3SE5 000-0AA21         |  |
|   |  |             | M12 plug,<br>4-pole                 | Complete units                            | --                  | 3SE5 212-0CC05         |  |
|   |  |             |                                     | Basic switches                            | 3SE5 214-0CC05-1AC5 | 3SE5 214-0CC05-1AC5    |  |
|  | Slow action                                | None        | 1 x (M20 x 1.5)                     | + Actuator heads                          | 3SE5 000-OAR01      | 3SE5 000-0AK00         |  |
|   |  |             |                                     | + Twist levers                            | --                  | 3SE5 000-0AA21         |  |
|   |  |             |                                     | Complete units                            | --                  | 3SE5 212-OKK21         |  |
|   |  |             |                                     | Basic switches                            | --                  | 3SE5 212-OKC05         |  |
|   |  |             |                                     | + Actuator heads                          | --                  | 3SE5 000-0AK00         |  |
|   | Snap action                                | None        | 1 x (M20 x 1.5)                     | + Twist levers                            | --                  | 3SE5 000-0AA21         |  |
|   |  |             |                                     | Complete units                            | --                  | 3SE5 212-OKC05-1AE1    |  |
|   |  |             |                                     | Basic switches                            | --                  | 3SE5 214-OKC05-1AE1    |  |
|   |  |             |                                     | + Actuator heads                          | --                  | 3SE5 000-0AK00         |  |
|   |  |             |                                     | + Twist levers                            | --                  | 3SE5 000-0AA21         |  |
|  | Slow action                                | None        | 1 x (M20 x 1.5)                     | Complete units                            | --                  | 3SE5 212-OLK21         |  |
|   |  |             |                                     | Basic switches                            | 3SE5 212-OLC05      | 3SE5 212-OLC05         |  |
|   |  |             |                                     | + Actuator heads                          | 3SE5 000-OAR01      | 3SE5 000-0AK00         |  |
|   |  |             |                                     | + Twist levers                            | --                  | 3SE5 000-0AA21         |  |
|   |  |             | 2 LEDs, yellow/<br>green<br>24 V DC | Complete units                            | --                  | 3SE5 212-1LC05         |  |
|   | Snap action                                | None        |                                     | Basic switches                            | 3SE5 212-1LC05      | 3SE5 212-1LC05         |  |
|   |  |             |                                     | + Actuator heads                          | 3SE5 000-OAR01      | 3SE5 000-0AK00         |  |
|   |  |             |                                     | + Twist levers                            | --                  | 3SE5 000-0AA21         |  |
|   |  |             |                                     | Complete units                            | --                  | 3SE5 214-OLC05-1AE1    |  |
|   |  |             |                                     | Basic switches                            | 3SE5 214-OLC05-1AE1 | 3SE5 214-OLC05-1AE1    |  |
| 2 NO/1 NC   | Slow action                                | None        | 1 x (M20 x 1.5)                     | + Actuator heads                          | 3SE5 000-OAR01      | 3SE5 000-0AK00         |  |
|   |  |             |                                     | + Twist levers                            | --                  | 3SE5 000-0AA21         |  |
|   |  |             |                                     | Complete units                            | --                  | 3SE5 212-OPC05         |  |
|   |  |             |                                     | Basic switches                            | --                  | 3SE5 212-OPC05         |  |
| 1 NO/2 NC<br>With make-before-break   | Slow action                                | None        | 1 x (M20 x 1.5)                     | + Actuator heads                          | --                  | 3SE5 000-0AK00         |  |
|   |  |             |                                     | + Twist levers                            | --                  | 3SE5 000-0AA21         |  |
|   |  |             |                                     | Complete units                            | --                  | 3SE5 212-OMC05         |  |
|   |  |             |                                     | Basic switches                            | --                  | 3SE5 212-OMC05         |  |
|   |  |             |                                     | + Actuator heads                          | --                  | 3SE5 000-0AK00         |  |
|   |  |             |                                     | + Twist levers                            | --                  | 3SE5 000-0AA21         |  |
|   |  |             |                                     | Complete units                            | --                  | 3SE5 000-0AA21         |  |
|   |  |             |                                     | Basic switches                            | --                  | 3SE5 000-0AA21         |  |

For ordering notes see page 9.



**Twist actuators (switching right and/or left, adjustable)**


+



+


**Rod actuator, 200 mm long**
**Length-adjustable twist lever**
**Metal lever**

| Plastic roller                               | High-grade steel roller                      | With latching holes,<br>plastic roller<br>$\leftrightarrow V_{max.} = 1.5 \text{ m/s}$ | Aluminum                                     | Plastic                                      |
|--|--|--|--|--|
| $\leftrightarrow V_{max.} = 1.5 \text{ m/s}$ | $\leftrightarrow V_{max.} = 1.5 \text{ m/s}$ | $\leftrightarrow V_{max.} = 1.5 \text{ m/s}$   | $\leftrightarrow V_{max.} = 1.5 \text{ m/s}$ | $\leftrightarrow V_{max.} = 1.5 \text{ m/s}$ |
| 3SE5 212-0BK50                               | --   | --   | --   | --   |
| 3SE5 212-0BC05                               | 3SE5 212-0BC05                               | 3SE5 212-0BC05   | 3SE5 212-0BC05                               | 3SE5 212-0BC05                               |
| 3SE5 000-OAK00                               | 3SE5 000-OAK00                               | 3SE5 000-OAK00   | 3SE5 000-OAK00                               | 3SE5 000-OAK00                               |
| 3SE5 000-OAA50                               | 3SE5 000-OAA51                               | 3SE5 000-OAA60   | 3SE5 000-OAA80                               | 3SE5 000-OAA82                               |
| --   | --   | --   | --   | --   |
| 3SE5 214-0BC05-1AC5                          | 3SE5 214-0BC05-1AC5                          | 3SE5 214-0BC05-1AC5  | 3SE5 214-0BC05-1AC5                          | 3SE5 214-0BC05-1AC5                          |
| 3SE5 000-OAK00                               | 3SE5 000-OAK00                               | 3SE5 000-OAK00   | 3SE5 000-OAK00                               | 3SE5 000-OAK00                               |
| 3SE5 000-OAA50                               | 3SE5 000-OAA51                               | 3SE5 000-OAA60   | 3SE5 000-OAA80                               | 3SE5 000-OAA82                               |
| 3SE5 212-OCK50                               | --   | 3SE5 212-OCK60   | --   | --   |
| 3SE5 212-OCC05                               | 3SE5 212-OCC05                               | 3SE5 212-OCC05   | 3SE5 212-OCC05                               | 3SE5 212-OCC05                               |
| 3SE5 000-OAK00                               | 3SE5 000-OAK00                               | 3SE5 000-OAK00   | 3SE5 000-OAK00                               | 3SE5 000-OAK00                               |
| 3SE5 000-OAA50                               | 3SE5 000-OAA51                               | 3SE5 000-OAA60   | 3SE5 000-OAA80                               | 3SE5 000-OAA82                               |
| --   | --   | --   | --   | --   |
| 3SE5 214-OCC05-1AC5                          | 3SE5 214-OCC05-1AC5                          | 3SE5 214-OCC05-1AC5  | 3SE5 214-OCC05-1AC5                          | 3SE5 214-OCC05-1AC5                          |
| 3SE5 000-OAK00                               | 3SE5 000-OAK00                               | 3SE5 000-OAK00   | 3SE5 000-OAK00                               | 3SE5 000-OAK00                               |
| 3SE5 000-OAA50                               | 3SE5 000-OAA51                               | 3SE5 000-OAA60   | 3SE5 000-OAA80                               | 3SE5 000-OAA82                               |
| --   | --   | --   | --   | --   |
| --   | --   | --   | --   | --   |
| --   | --   | --   | --   | --   |
| --   | --   | --   | --   | --   |
| --   | --   | 3SE5 212-OKK60   | --   | --   |
| 3SE5 212-OKC05                               | 3SE5 212-OKC05                               | 3SE5 212-OKC05   | 3SE5 212-OKC05                               | 3SE5 212-OKC05                               |
| 3SE5 000-OAK00                               | 3SE5 000-OAK00                               | 3SE5 000-OAK00   | 3SE5 000-OAK00                               | 3SE5 000-OAK00                               |
| 3SE5 000-OAA50                               | 3SE5 000-OAA51                               | 3SE5 000-OAA60   | 3SE5 000-OAA80                               | 3SE5 000-OAA82                               |
| --   | --   | --   | --   | --   |
| 3SE5 214-OKC05-1AE1                          | 3SE5 214-OKC05-1AE1                          | 3SE5 214-OKC05-1AE1  | 3SE5 214-OKC05-1AE1                          | 3SE5 214-OKC05-1AE1                          |
| 3SE5 000-OAK00                               | 3SE5 000-OAK00                               | 3SE5 000-OAK00   | 3SE5 000-OAK00                               | 3SE5 000-OAK00                               |
| 3SE5 000-OAA50                               | 3SE5 000-OAA51                               | 3SE5 000-OAA60   | 3SE5 000-OAA80                               | 3SE5 000-OAA82                               |
| 3SE5 212-OLK50                               | --   | 3SE5 212-OLK60   | --   | --   |
| 3SE5 212-OLC05                               | 3SE5 212-OLC05                               | 3SE5 212-OLC05   | 3SE5 212-OLC05                               | 3SE5 212-OLC05                               |
| 3SE5 000-OAK00                               | 3SE5 000-OAK00                               | 3SE5 000-OAK00   | 3SE5 000-OAK00                               | 3SE5 000-OAK00                               |
| 3SE5 000-OAA50                               | 3SE5 000-OAA51                               | 3SE5 000-OAA60   | 3SE5 000-OAA80                               | 3SE5 000-OAA82                               |
| --   | --   | --   | --   | --   |
| 3SE5 212-1LC05                               | 3SE5 212-1LC05                               | 3SE5 212-1LC05   | 3SE5 212-1LC05                               | 3SE5 212-1LC05                               |
| 3SE5 000-OAK00                               | 3SE5 000-OAK00                               | 3SE5 000-OAK00   | 3SE5 000-OAK00                               | 3SE5 000-OAK00                               |
| 3SE5 000-OAA50                               | 3SE5 000-OAA51                               | 3SE5 000-OAA60   | 3SE5 000-OAA80                               | 3SE5 000-OAA82                               |
| --   | --   | --   | --   | --   |
| 3SE5 214-OLC05-1AE1                          | 3SE5 214-OLC05-1AE1                          | 3SE5 214-OLC05-1AE1  | 3SE5 214-OLC05-1AE1                          | 3SE5 214-OLC05-1AE1                          |
| 3SE5 000-OAK00                               | 3SE5 000-OAK00                               | 3SE5 000-OAK00   | 3SE5 000-OAK00                               | 3SE5 000-OAK00                               |
| 3SE5 000-OAA50                               | 3SE5 000-OAA51                               | 3SE5 000-OAA60   | 3SE5 000-OAA80                               | 3SE5 000-OAA82                               |
| --   | --   | --   | --   | --   |
| 3SE5 212-OPC05                               | 3SE5 212-OPC05                               | 3SE5 212-OPC05   | 3SE5 212-OPC05                               | 3SE5 212-OPC05                               |
| 3SE5 000-OAK00                               | 3SE5 000-OAK00                               | 3SE5 000-OAK00   | 3SE5 000-OAK00                               | 3SE5 000-OAK00                               |
| 3SE5 000-OAA50                               | 3SE5 000-OAA51                               | 3SE5 000-OAA60   | 3SE5 000-OAA80                               | 3SE5 000-OAA82                               |
| --   | --   | --   | --   | --   |
| 3SE5 212-OMC05                               | 3SE5 212-OMC05                               | 3SE5 212-OMC05   | 3SE5 212-OMC05                               | 3SE5 212-OMC05                               |
| 3SE5 000-OAK00                               | 3SE5 000-OAK00                               | 3SE5 000-OAK00   | 3SE5 000-OAK00                               | 3SE5 000-OAK00                               |
| 3SE5 000-OAA50                               | 3SE5 000-OAA51                               | 3SE5 000-OAA60   | 3SE5 000-OAA80                               | 3SE5 000-OAA82                               |

# Standard position switches

## Metal enclosure, 40 mm

Operating points and mounting  
according to EN 50041, IP66/IP67

Complete unit and  
Module selection



| Plain plungers | Rounded plungers,<br>type B | Roller plungers,<br>type C |
|----------------|-----------------------------|----------------------------|
|                |                             |                            |

| Contact blocks                   |                  | LED display                           | Connection       | High-grade steel plunger        | High-grade steel plunger, with overtravel | High-grade steel roller, with overtravel |
|----------------------------------|------------------|---------------------------------------|------------------|---------------------------------|---|--|
| Contacts                         | Contact elements |                                       |                  | ↓ v <sub>max.</sub> = 1.5 m/s → | ↓ v <sub>max.</sub> = 1.5 m/s →           | ↔ v <sub>max.</sub> = 1 m/s →            |
| 1 NO/1 NC                        | Slow action      | None                                  | 1 x (M20 x 1.5)  | Complete units                  | 3SE5 112-0BB01                            | 3SE5 112-0BC02                           |
|                                  |                  |                                       |                  | Basic switches                  | 3SE5 112-0BA00                            | 3SE5 112-0BA00                           |
|                                  |                  | + Actuator heads                      |                  | 3SE5 000-0AB01                  | 3SE5 000-0AC02                            | 3SE5 000-0AD02                           |
|                                  |                  | M12 plug, 5-pole (PE connected)       |                  | Complete units                  | --  | --                                       |
|                                  |                  |                                       |                  | Basic switches                  | 3SE5 114-0BA00-1AC5                       | 3SE5 114-0BA00-1AC5                      |
|                                  |                  |                                       |                  | + Actuator heads                | 3SE5 000-0AB01                            | 3SE5 000-0AC02                           |
|                                  | Snap action      | None                                  | 1 x (M20 x 1.5)  | Complete units                  | 3SE5 112-0CB01                            | 3SE5 112-0CC02                           |
|                                  |                  |                                       |                  | Basic switches                  | 3SE5 112-0CA00                            | 3SE5 112-0CA00                           |
|                                  |                  | + Actuator heads                      |                  | 3SE5 000-0AB01                  | 3SE5 000-0AC02                            | 3SE5 000-0AD02                           |
|                                  |                  | M12 plug, 5-pole (PE connected)       |                  | Complete units                  | --  | --                                       |
|                                  |                  |                                       |                  | Basic switches                  | 3SE5 114-0CA00-1AC5                       | 3SE5 114-0CA00-1AC5                      |
|                                  |                  |                                       |                  | + Actuator heads                | 3SE5 000-0AB01                            | 3SE5 000-0AC02                           |
|                                  |                  | 2 LEDs, yellow/green, 24 V DC         | M12 plug, 5-pole | Complete units                  | --  | --                                       |
|                                  |                  |                                       |                  | Basic switches                  | 3SE5 114-1CA00-1AF3                       | 3SE5 114-1CA00-1AF3                      |
|                                  |                  |                                       |                  | + Actuator heads                | 3SE5 000-0AB01                            | 3SE5 000-0AC02                           |
| 1 NO/2 NC                        | Slow action      | None                                  | 1 x (M20 x 1.5)  | Complete units                  | 3SE5 112-0KB01                            | 3SE5 112-0KC02                           |
|                                  |                  |                                       |                  | Basic switches                  | 3SE5 112-0KA00                            | 3SE5 112-0KA00                           |
|                                  |                  | + Actuator heads                      |                  | 3SE5 000-0AB01                  | 3SE5 000-0AC02                            | 3SE5 000-0AD02                           |
|                                  |                  | M12 plug, 5-pole (2 NC, PE connected) |                  | Complete units                  | --  | --                                       |
|                                  |                  |                                       |                  | Basic switches                  | 3SE5 114-0KA00-1AE1                       | 3SE5 114-0KA00-1AE1                      |
|                                  |                  |                                       |                  | + Actuator heads                | 3SE5 000-0AB01                            | 3SE5 000-0AC02                           |
|                                  | Snap action      | None                                  | 1 x (M20 x 1.5)  | Complete units                  | 3SE5 112-0LB01                            | 3SE5 112-0LC02                           |
|                                  |                  |                                       |                  | Basic switches                  | 3SE5 112-0LA00                            | 3SE5 112-0LA00                           |
|                                  |                  | + Actuator heads                      |                  | 3SE5 000-0AB01                  | 3SE5 000-0AC02                            | 3SE5 000-0AD02                           |
|                                  |                  | M12 plug, 5-pole (2 NC, PE connected) |                  | Complete units                  | --  | --                                       |
|                                  |                  |                                       |                  | Basic switches                  | 3SE5 114-0LA00-1AE1                       | 3SE5 114-0LA00-1AE1                      |
|                                  |                  |                                       |                  | + Actuator heads                | 3SE5 000-0AB01                            | 3SE5 000-0AC02                           |
| 2 NO/1 NC                        | Slow action      | None                                  | 1 x (M20 x 1.5)  | Complete units                  | --  | --                                       |
|                                  |                  |                                       |                  | Basic switches                  | 3SE5 112-0PA00                            | 3SE5 112-0PA00                           |
|                                  |                  | + Actuator heads                      |                  | 3SE5 000-0AB01                  | 3SE5 000-0AC02                            | 3SE5 000-0AD02                           |
| 1 NO/2 NC with make-before-break | Slow action      | None                                  | 1 x (M20 x 1.5)  | Complete units                  | --  | --                                       |
|                                  |                  |                                       |                  | Basic switches                  | 3SE5 112-0MA00                            | 3SE5 112-0MA00                           |
|                                  |                  | + Actuator heads                      |                  | 3SE5 000-0AB01                  | 3SE5 000-0AC02                            | 3SE5 000-0AD02                           |

For ordering notes see page 9.

| Roller levers   |   | Angular roller levers   |   | Spring rod actuators  |
|---|---|---|---|---|
|  |   |  |   |  |
| Metal lever   |   | Metal lever   |   | Plastic plunger,<br>total length 142.5 mm   |
| Plastic roller<br>$\leftarrow v_{\max.} = 2.5 \text{ m/s}$ ↗                      | High-grade steel roller<br>$\leftarrow v_{\max.} = 2.5 \text{ m/s}$ ↗ | Plastic roller<br>$\uparrow v_{\max.} = 2.5 \text{ m/s}$ ↗                        | High-grade steel roller<br>$\uparrow v_{\max.} = 2.5 \text{ m/s}$ ↗ | Starting from any direction, $v_{\max.} = 1 \text{ m/s}$                            |
| 3SE5 112-0BE01  | --  | 3SE5 112-0BF01  | --  | --  |
| 3SE5 112-0BA00  | 3SE5 112-0BA00  | 3SE5 112-0BA00  | 3SE5 112-0BA00  | --  |
| 3SE5 000-OAE01  | 3SE5 000-OAE02  | 3SE5 000-OAF01  | 3SE5 000-OAF02  | --  |
| --  | --  | --  | --  | --  |
| 3SE5 114-0BA00-1AC5   | 3SE5 114-0BA00-1AC5   | 3SE5 114-0BA00-1AC5   | 3SE5 114-0BA00-1AC5   | --  |
| 3SE5 000-OAE01  | 3SE5 000-OAE02  | 3SE5 000-OAF01  | 3SE5 000-OAF02  | --  |
| --  | --  | --  | --  | --  |
| 3SE5 112-0CE01  | --  | 3SE5 112-0CF01  | --  | 3SE5 112-0CR01  |
| 3SE5 112-0CA00  | 3SE5 112-0CA00  | 3SE5 112-0CA00  | 3SE5 112-0CA00  | 3SE5 112-0CA00  |
| 3SE5 000-OAE01  | 3SE5 000-OAE02  | 3SE5 000-OAF01  | 3SE5 000-OAF02  | 3SE5 000-OAR01  |
| --  | --  | --  | --  | --  |
| 3SE5 114-0CA00-1AC5   | 3SE5 114-0CA00-1AC5   | 3SE5 114-0CA00-1AC5   | 3SE5 114-0CA00-1AC5   | 3SE5 114-0CA00-1AC5   |
| 3SE5 000-OAE01  | 3SE5 000-OAE02  | 3SE5 000-OAF01  | 3SE5 000-OAF02  | 3SE5 000-OAR01  |
| --  | --  | --  | --  | --  |
| 3SE5 114-1CA00-1AF3   | 3SE5 114-1CA00-1AF3   | 3SE5 114-1CA00-1AF3   | 3SE5 114-1CA00-1AF3   | 3SE5 114-1CA00-1AF3   |
| 3SE5 000-OAE01  | 3SE5 000-OAE02  | 3SE5 000-OAF01  | 3SE5 000-OAF02  | 3SE5 000-OAR01  |
| --  | --  | --  | --  | --  |
| 3SE5 112-0KE01  | --  | --  | --  | --  |
| 3SE5 112-0KA00  | 3SE5 112-0KA00  | 3SE5 112-0KA00  | 3SE5 112-0KA00  | --  |
| 3SE5 000-OAE01  | 3SE5 000-OAE02  | 3SE5 000-OAF01  | 3SE5 000-OAF02  | --  |
| --  | --  | --  | --  | --  |
| 3SE5 114-0KA00-1AE1   | 3SE5 114-0KA00-1AE1   | 3SE5 114-0KA00-1AE1   | 3SE5 114-0KA00-1AE1   | --  |
| 3SE5 000-OAE01  | 3SE5 000-OAE02  | 3SE5 000-OAF01  | 3SE5 000-OAF02  | --  |
| --  | --  | --  | --  | --  |
| 3SE5 112-0LE01  | --  | 3SE5 112-0LF01  | --  | --  |
| 3SE5 112-0LA00  | 3SE5 112-0LA00  | 3SE5 112-0LA00  | 3SE5 112-0LA00  | 3SE5 112-0LA00  |
| 3SE5 000-OAE01  | 3SE5 000-OAE02  | 3SE5 000-OAF01  | 3SE5 000-OAF02  | 3SE5 000-OAR01  |
| --  | --  | --  | --  | --  |
| 3SE5 114-0LA00-1AE1   | 3SE5 114-0LA00-1AE1   | 3SE5 114-0LA00-1AE1   | 3SE5 114-0LA00-1AE1   | 3SE5 114-0LA00-1AE1   |
| 3SE5 000-OAE01  | 3SE5 000-OAE02  | 3SE5 000-OAF01  | 3SE5 000-OAF02  | 3SE5 000-OAR01  |
| --  | --  | --  | --  | --  |
| 3SE5 112-0PA00  | 3SE5 112-0PA00  | 3SE5 112-0PA00  | 3SE5 112-0PA00  | --  |
| 3SE5 000-OAE01  | 3SE5 000-OAE02  | 3SE5 000-OAF01  | 3SE5 000-OAF02  | --  |
| --  | --  | --  | --  | --  |
| 3SE5 112-0MA00  | 3SE5 112-0MA00  | 3SE5 112-0MA00  | 3SE5 112-0MA00  | --  |
| 3SE5 000-OAE01  | 3SE5 000-OAE02  | 3SE5 000-OAF01  | 3SE5 000-OAF02  | --  |

**Standard position switches**  
**Metal enclosure, 40 mm**  
 Operating points and mounting  
 according to EN 50041, IP66/IP67

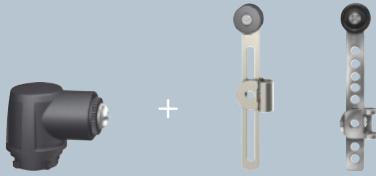
Complete unit and  
 Module selection



Twist lever, type A

| Contact blocks                   |                  | LED display | Connection                                  | Twist lever, type A |                        |                     |
|----------------------------------|------------------|-------------|---|---------------------|------------------------|---------------------|
| Contacts                         | Contact elements |             |   | Metal lever         | High-grade steel lever | Plastic roller      |
| 1 NO/1 NC                        | Slow action      | None        | 1 x (M20 x 1.5)                             | Complete assembly   | 3SE5 112-0BH01         | 3SE5 112-0BH02      |
|                                  |                  |             |   | Basic switches      | 3SE5 112-0BA00         | 3SE5 112-0BA00      |
|                                  |                  |             | M12 plug,<br>5-pole<br>(PE connected)       | + Actuator heads    | 3SE5 000-OAH00         | 3SE5 000-OAH00      |
|                                  |                  |             |   | + Twist levers      | 3SE5 000-OAA01         | 3SE5 000-OAA11      |
|                                  |                  |             |   | Complete units      | --                     | --                  |
|                                  | Snap action      | None        | 1 x (M20 x 1.5)                             | Basic switches      | 3SE5 114-0BA00-1AC5    | 3SE5 114-0BA00-1AC5 |
|                                  |                  |             |   | + Actuator heads    | 3SE5 000-OAH00         | 3SE5 000-OAH00      |
|                                  |                  |             | M12 plug,<br>5-pole<br>(PE connected)       | + Twist levers      | 3SE5 000-OAA01         | 3SE5 000-OAA11      |
|                                  |                  |             |   | Complete units      | 3SE5 112-0CH01         | 3SE5 112-0CH02      |
|                                  |                  |             |   | Basic switches      | 3SE5 112-0CA00         | 3SE5 112-0CA00      |
| 1 NO/2 NC                        | Slow action      | None        | 1 x M20 x 1.5)                              | + Actuator heads    | 3SE5 000-OAH00         | 3SE5 000-OAH00      |
|                                  |                  |             |   | + Twist levers      | 3SE5 000-OAA01         | 3SE5 000-OAA11      |
|                                  |                  |             | M12 plug,<br>5-pole<br>(2 NC, PE connected) | Complete units      | 3SE5 114-0CH01-1AC5    | --                  |
|                                  |                  |             |   | Basic switches      | 3SE5 114-0CA00-1AC5    | 3SE5 114-0CA00-1AC5 |
|                                  |                  |             |   | + Actuator heads    | 3SE5 000-OAH00         | 3SE5 000-OAH00      |
|                                  | Snap action      | None        | 1 x (M20 x 1.5)                             | + Twist levers      | 3SE5 000-OAA01         | 3SE5 000-OAA11      |
|                                  |                  |             |   | Complete units      | 3SE5 114-1CH01-1AF3    | --                  |
|                                  |                  |             | M12 plug,<br>5-pole<br>(2 NC, PE connected) | Basic switches      | 3SE5 114-1CA00-1AF3    | 3SE5 114-1CA00-1AF3 |
|                                  |                  |             |   | + Actuator heads    | 3SE5 000-OAH00         | 3SE5 000-OAH00      |
|                                  |                  |             |   | + Twist levers      | 3SE5 000-OAA01         | 3SE5 000-OAA11      |
| 2 NO/1 NC                        | Slow action      | None        | 1 x (M20 x 1.5)                             | Complete units      | 3SE5 112-OKH01         | --                  |
|                                  |                  |             |   | Basic switches      | 3SE5 112-OKA00         | 3SE5 112-OKA00      |
|                                  |                  |             | M12 plug,<br>5-pole<br>(2 NC, PE connected) | + Actuator heads    | 3SE5 000-OAH00         | 3SE5 000-OAH00      |
|                                  |                  |             |   | + Twist levers      | 3SE5 000-OAA01         | 3SE5 000-OAA11      |
| 1 NO/2 NC with make-before-break | Slow action      | None        | 1 x (M20 x 1.5)                             | Complete units      | --                     | --                  |
|                                  |                  |             |   | Basic switches      | 3SE5 112-OPA00         | 3SE5 112-OPA00      |
|                                  |                  |             | M12 plug,<br>5-pole<br>(2 NC, PE connected) | + Actuator heads    | 3SE5 000-OAH00         | 3SE5 000-OAH00      |
|                                  |                  |             |   | + Twist levers      | 3SE5 000-OAA01         | 3SE5 000-OAA02      |

For ordering notes see page 9.

| Twist actuators (switching right and/or left, adjustable)                         |   |   |  |   |   | Fork lever actuators |
|---|---|---|--|---|---|----------------------|
|  |   |   |  |   |   |                      |
| <b>Length-adjustable twist lever</b>  |   |   | <b>Rod actuator, 200 mm long, type D</b>   |   |   |                      |
| <b>Metal lever</b>  |   |   | <b>Aluminum</b>  | <b>Plastic</b>                                | <b>Metal lever</b>  |                      |
| <b>Plastic roller</b>   | <b>High-grade steel roller</b>                | <b>With latching holes, plastic roller</b>                |  |   | <b>Plastic roller</b>                                     |                      |
| $\leftrightarrow v_{\max.} = 1.5 \text{ m/s}$                                     | $\leftrightarrow v_{\max.} = 1.5 \text{ m/s}$ | $\leftrightarrow v_{\max.} = 1.5 \text{ m/s} \rightarrow$ | $\leftrightarrow v_{\max.} = 1.5 \text{ m/s}$                                      | $\leftrightarrow v_{\max.} = 1.5 \text{ m/s}$ | $\leftrightarrow v_{\max.} = 1.5 \text{ m/s} \rightarrow$ |                      |
| 3SE5 112-0BH50  | --  | 3SE5 112-0BH60  | --   | --  | --  |                      |
| 3SE5 112-0BA00  | 3SE5 112-0BA00                                | 3SE5 112-0BA00  | 3SE5 112-0BA00   | 3SE5 112-0BA00                                | --  |                      |
| 3SE5 000-0AH00  | 3SE5 000-0AH00                                | 3SE5 000-0AH00  | 3SE5 000-0AH00   | 3SE5 000-0AH00                                | --  |                      |
| 3SE5 000-0AA50  | 3SE5 000-0AA51                                | 3SE5 000-0AA60  | 3SE5 000-0AA80   | 3SE5 000-0AA82                                | --  |                      |
| --  | --  | --  | --   | --  | --  |                      |
| 3SE5 114-0BA00-1AC5   | 3SE5 114-0BA00-1AC5                           | 3SE5 114-0BA00-1AC5                                       | 3SE5 114-0BA00-1AC5  | 3SE5 114-0BA00-1AC5                           | --  |                      |
| 3SE5 000-0AH00  | 3SE5 000-0AH00                                | 3SE5 000-0AH00  | 3SE5 000-0AH00   | 3SE5 000-0AH00                                | --  |                      |
| 3SE5 000-0AA50  | 3SE5 000-0AA51                                | 3SE5 000-0AA60  | 3SE5 000-0AA80   | 3SE5 000-0AA82                                | --  |                      |
| 3SE5 112-0CH50  | 3SE5 112-0CH51                                | 3SE5 112-0CH60  | 3SE5 112-0CH80   | 3SE5 112-0CH82                                | 3SE5 112-0CT11  |                      |
| 3SE5 112-0CA00  | 3SE5 112-0CA00                                | 3SE5 112-0CA00  | 3SE5 112-0CA00   | 3SE5 112-0CA00                                | 3SE5 112-0CA00  |                      |
| 3SE5 000-0AH00  | 3SE5 000-0AH00                                | 3SE5 000-0AH00  | 3SE5 000-0AH00   | 3SE5 000-0AH00                                | 3SE5 000-OAT10  |                      |
| 3SE5 000-0AA50  | 3SE5 000-0AA51                                | 3SE5 000-0AA60  | 3SE5 000-0AA80   | 3SE5 000-0AA82                                | 3SE5 000-OAT01  |                      |
| --  | --  | --  | --   | --  | --  |                      |
| 3SE5 114-0CA00-1AC5   | 3SE5 114-0CA00-1AC5                           | 3SE5 114-0CA00-1AC5                                       | 3SE5 114-0CA00-1AC5  | 3SE5 114-0CA00-1AC5                           | 3SE5 114-0CA00-1AC5                                       |                      |
| 3SE5 000-0AH00  | 3SE5 000-0AH00                                | 3SE5 000-0AH00  | 3SE5 000-0AH00   | 3SE5 000-0AH00                                | 3SE5 000-OAT10  |                      |
| 3SE5 000-0AA50  | 3SE5 000-0AA51                                | 3SE5 000-0AA60  | 3SE5 000-0AA80   | 3SE5 000-0AA82                                | 3SE5 000-OAT01  |                      |
| --  | --  | --  | --   | --  | --  |                      |
| 3SE5 114-1CA00-1AF3   | 3SE5 114-1CA00-1AF3                           | 3SE5 114-1CA00-1AF3                                       | 3SE5 114-1CA00-1AF3  | 3SE5 114-1CA00-1AF3                           | 3SE5 114-1CA00-1AF3                                       |                      |
| 3SE5 000-0AH00  | 3SE5 000-0AH00                                | 3SE5 000-0AH00  | 3SE5 000-0AH00   | 3SE5 000-0AH00                                | 3SE5 000-OAT10  |                      |
| 3SE5 000-0AA50  | 3SE5 000-0AA51                                | 3SE5 000-0AA60  | 3SE5 000-0AA80   | 3SE5 000-0AA82                                | 3SE5 000-OAT01  |                      |
| --  | --  | --  | --   | --  | --  |                      |
| 3SE5 112-0KA00  | 3SE5 112-0KA00                                | 3SE5 112-0KA00  | 3SE5 112-0KA00   | 3SE5 112-0KA00                                | --  |                      |
| 3SE5 000-0AH00  | 3SE5 000-0AH00                                | 3SE5 000-0AH00  | 3SE5 000-0AH00   | 3SE5 000-0AH00                                | --  |                      |
| 3SE5 000-0AA50  | 3SE5 000-0AA51                                | 3SE5 000-0AA60  | 3SE5 000-0AA80   | 3SE5 000-0AA82                                | --  |                      |
| --  | --  | --  | --   | --  | --  |                      |
| 3SE5 114-0KA00-1AE1   | 3SE5 114-0KA00-1AE1                           | 3SE5 114-0KA00-1AE1                                       | 3SE5 114-0KA00-1AE1  | 3SE5 114-0KA00-1AE1                           | --  |                      |
| 3SE5 000-0AH00  | 3SE5 000-0AH00                                | 3SE5 000-0AH00  | 3SE5 000-0AH00   | 3SE5 000-0AH00                                | --  |                      |
| 3SE5 000-0AA50  | 3SE5 000-0AA51                                | 3SE5 000-0AA60  | 3SE5 000-0AA80   | 3SE5 000-0AA82                                | --  |                      |
| 3SE5 112-0LH50  | --  | 3SE5 112-0LH60  | --   | --  | --  |                      |
| 3SE5 112-0LA00  | 3SE5 112-0LA00                                | 3SE5 112-0LA00  | 3SE5 112-0LA00   | 3SE5 112-0LA00                                | 3SE5 112-0LA00  |                      |
| 3SE5 000-0AH00  | 3SE5 000-0AH00                                | 3SE5 000-0AH00  | 3SE5 000-0AH00   | 3SE5 000-0AH00                                | 3SE5 000-OAT10  |                      |
| 3SE5 000-0AA50  | 3SE5 000-0AA51                                | 3SE5 000-0AA60  | 3SE5 000-0AA80   | 3SE5 000-0AA82                                | 3SE5 000-OAT01  |                      |
| --  | --  | --  | --   | --  | --  |                      |
| 3SE5 114-0LA00-1AE1   | 3SE5 114-0LA00-1AE1                           | 3SE5 114-0LA00-1AE1                                       | 3SE5 114-0LA00-1AE1  | 3SE5 114-0LA00-1AE1                           | 3SE5 114-0LA00-1AE1                                       |                      |
| 3SE5 000-0AH00  | 3SE5 000-0AH00                                | 3SE5 000-0AH00  | 3SE5 000-0AH00   | 3SE5 000-0AH00                                | 3SE5 000-OAT10  |                      |
| 3SE5 000-0AA50  | 3SE5 000-0AA51                                | 3SE5 000-0AA60  | 3SE5 000-0AA80   | 3SE5 000-0AA82                                | 3SE5 000-OAT01  |                      |
| --  | --  | --  | --   | --  | --  |                      |
| 3SE5 112-0PA00  | 3SE5 112-0PA00                                | 3SE5 112-0PA00  | 3SE5 112-0PA00   | 3SE5 112-0PA00                                | --  |                      |
| 3SE5 000-0AH00  | 3SE5 000-0AH00                                | 3SE5 000-0AH00  | 3SE5 000-0AH00   | 3SE5 000-0AH00                                | --  |                      |
| 3SE5 000-0AA50  | 3SE5 000-0AA51                                | 3SE5 000-0AA60  | 3SE5 000-0AA80   | 3SE5 000-0AA82                                | --  |                      |
| --  | --  | --  | --   | --  | --  |                      |
| 3SE5 112-0MA00  | 3SE5 112-0MA00                                | 3SE5 112-0MA00  | 3SE5 112-0MA00   | 3SE5 112-0MA00                                | --  |                      |
| 3SE5 000-0AH00  | 3SE5 000-0AH00                                | 3SE5 000-0AH00  | 3SE5 000-0AH00   | 3SE5 000-0AH00                                | --  |                      |
| 3SE5 000-0AA50  | 3SE5 000-0AA51                                | 3SE5 000-0AA60  | 3SE5 000-0AA80   | 3SE5 000-0AA82                                | --  |                      |

# Standard position switches

## Metal enclosure, 56 mm

Operating points according to  
EN 50041, IP66/IP67

Complete unit and  
Module selection



|                                     |                  |             |                 | Plain plungers  | Rounded plungers  | Roller plungers  |
|-------------------------------------|------------------|-------------|-----------------|---|---|--|
| Contacts                            | Contact elements | LED display | Connection      | High-grade steel plunger<br>↓ v <sub>max.</sub> = 1.5 m/s ↗ | High-grade steel plunger,<br>with overtravel<br>↓ v <sub>max.</sub> = 1.5 m/s ↗ | High-grade steel roller,<br>with overtravel<br>↔ v <sub>max.</sub> = 1 m/s ↗ |
| 1 NO/1 NC                           | Slow action      | None        | 3 x (M20 x 1.5) | Complete units  | 3SE5 122-0BB01  | 3SE5 122-0BC02   |
|                                     |                  |             |                 | Basic switches  | 3SE5 122-0BA00  | 3SE5 122-0BA00   |
|                                     |                  |             |                 | + Actuator heads  | 3SE5 000-0AB01  | 3SE5 000-0AC02   |
|                                     |                  |             |                 |   |   | 3SE5 000-0AD02   |
|                                     | Snap action      | None        | 3 x (M20 x 1.5) | Complete units  | 3SE5 122-0CB01  | 3SE5 122-0CC02   |
|                                     |                  |             |                 | Basic switches  | 3SE5 122-0CA00  | 3SE5 122-0CA00   |
|                                     |                  |             |                 | + Actuator heads  | 3SE5 000-0AB01  | 3SE5 000-0AC02   |
|                                     |                  |             |                 |   |   | 3SE5 000-0AD02   |
| 1 NO/2 NC                           | Slow action      | None        | 3 x (M20 x 1.5) | Complete units  | 3SE5 122-0KB01  | 3SE5 122-0KC02   |
|                                     |                  |             |                 | Basic switches  | 3SE5 122-0CA00  | 3SE5 122-0KA00   |
|                                     |                  |             |                 | + Actuator heads  | 3SE5 000-0AB01  | 3SE5 000-0AC02   |
|                                     |                  |             |                 |   |   | 3SE5 000-0AD02   |
|                                     |                  |             |                 | 2 LEDs, yellow/<br>green,<br>24 V DC                        | Complete units  | --   |
|                                     | Snap action      | None        | 3 x (M20 x 1.5) | Basic switches  | 3SE5 122-1KA00  | 3SE5 122-1KA00   |
|                                     |                  |             |                 | + Actuator heads  | 3SE5 000-0AB01  | 3SE5 000-0AC02   |
|                                     |                  |             |                 |   |   | 3SE5 000-0AD02   |
|                                     |                  |             |                 | 2 LEDs, yellow/<br>green,<br>24 V DC                        | Complete units  | --   |
|                                     |                  |             |                 | Basic switches  | 3SE5 122-1LA00  | 3SE5 122-1LA00   |
|                                     |                  |             |                 | + Actuator heads  | 3SE5 000-0AB01  | 3SE5 000-0AC02   |
|                                     |                  |             |                 |   |   |  |
| 2 NO/1 NC                           | Slow action      | None        | 1 x (M20 x 1.5) | Complete units  | --  | --   |
|                                     |                  |             |                 | Basic switches  | 3SE5 122-0PA00  | 3SE5 122-0PA00   |
|                                     |                  |             |                 | + Actuator heads  | 3SE5 000-0AB01  | 3SE5 000-0AC02   |
| 1 NO/2 NC<br>With make-before-break | Slow action      | None        | 1 x (M20 x 1.5) | Complete units  | --  | --   |
|                                     |                  |             |                 | Basic switches  | 3SE5 122-0MA00  | 3SE5 122-0MA00   |
|                                     |                  |             |                 | + Actuator heads  | 3SE5 000-0AB01  | 3SE5 000-0AC02   |
|                                     |                  |             |                 |   |   |  |

For ordering notes see page 9.

| Roller levers   |   | Angular roller levers   |   | Spring rod actuators  |
|---|---|---|---|---|
|  |   |  |   |  |
| <b>Metal lever</b>  |   | <b>Metal lever</b>  |   | <b>Plastic plunger,<br/>total length 142.5 mm</b>                                   |
| <b>Plastic roller</b>   | <b>High-grade steel roller</b>                      | <b>Plastic roller</b>   | <b>High-grade steel roller</b>                    | <b>Starting from any<br/>direction, <math>v_{max.} = 1 \text{ m/s}</math></b>       |
| $\leftarrow v_{max.} = 2.5 \text{ m/s} \rightarrow$                               | $\leftarrow v_{max.} = 2.5 \text{ m/s} \rightarrow$ | $\uparrow v_{max.} = 2.5 \text{ m/s} \rightarrow$                                 | $\uparrow v_{max.} = 2.5 \text{ m/s} \rightarrow$ |   |
| 3SE5 122-0BE01  | --  | 3SE5 122-0BF01  | --  | --  |
| 3SE5 122-0BA00  | 3SE5 122-0BA00                                      | 3SE5 122-0BA00  | 3SE5 122-0BA00                                    | --  |
| 3SE5 000-0AE01  | 3SE5 000-0AE02                                      | 3SE5 000-0AF01  | 3SE5 000-0AF02                                    | --  |
|   |   |   |   |   |
| 3SE5 122-0CE01  | 3SE5 122-0CE02                                      | 3SE5 122-0CF01  | --  | 3SE5 122-0CR01  |
| 3SE5 122-0CA00  | 3SE5 122-0CA00                                      | 3SE5 122-0CA00  | 3SE5 122-0CA00                                    | 3SE5 122-0CA00  |
| 3SE5 000-0AE01  | 3SE5 000-0AE02                                      | 3SE5 000-0AF01  | 3SE5 000-0AF02                                    | 3SE5 000-0AR01  |
|   |   |   |   |   |
| 3SE5 122-0KE01  | --  | --  | --  | --  |
| 3SE5 122-0KA00  | 3SE5 122-0KA00                                      | 3SE5 122-0KA00  | 3SE5 122-0KA00                                    | --  |
| 3SE5 000-0AE01  | 3SE5 000-0AE02                                      | 3SE5 000-0AF01  | 3SE5 000-0AF02                                    | --  |
|   |   |   |   |   |
| --  | --  | --  | --  | --  |
| 3SE5 122-1KA00  | 3SE5 122-1KA00                                      | 3SE5 122-1KA00  | 3SE5 122-1KA00                                    | --  |
| 3SE5 000-0AE01  | 3SE5 000-0AE02                                      | 3SE5 000-0AF01  | 3SE5 000-0AF02                                    | --  |
|   |   |   |   |   |
| 3SE5 122-0LE01  | --  | --  | --  | --  |
| 3SE5 122-0LA00  | 3SE5 122-0LA00                                      | 3SE5 122-0LA00  | 3SE5 122-0LA00                                    | 3SE5 122-0LA00  |
| 3SE5 000-0AE01  | 3SE5 000-0AE02                                      | 3SE5 000-0AF01  | 3SE5 000-0AF02                                    | 3SE5 000-0AR01  |
|   |   |   |   |   |
| --  | --  | --  | --  | --  |
| 3SE5 122-1LA00  | 3SE5 122-1LA00                                      | 3SE5 122-1LA00  | 3SE5 122-1LA00                                    | 3SE5 122-1LA00  |
| 3SE5 000-0AE01  | 3SE5 000- AE02                                      | 3SE5 000-0AF01  | 3SE5 000-0AF02                                    | 3SE5 000-0AR01  |
|   |   |   |   |   |
|   |   |   |   |   |
| 3SE5 122-0PA00  | 3SE5 122-0PA00                                      | 3SE5 122-0PA00  | 3SE5 122-0PA00                                    | 3SE5 122-0PA00  |
| 3SE5 000-0AE01  | 3SE5 000- AE02                                      | 3SE5 000-0AF01  | 3SE5 000-0AF02                                    | 3SE5 000-0AR01  |
|   |   |   |   |   |
|   |   |   |   |   |
| 3SE5 122-0MA00  | 3SE5 122-0MA00                                      | 3SE5 122-0MA00  | 3SE5 122-0MA00                                    | 3SE5 122-0MA00  |
| 3SE5 000-0AE01  | 3SE5 000- AE02                                      | 3SE5 000-0AF01  | 3SE5 000-0AF02                                    | 3SE5 000-0AR01  |
|   |   |   |   |   |

# Standard position switches

## Metal enclosure, 56 mm

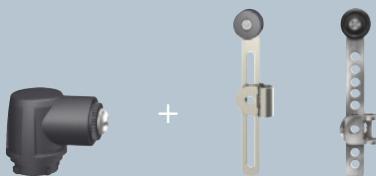
Operating points according to  
EN 50041, IP66/IP67

Complete unit and  
Module selection



| Contact blocks                      |                  | LED display | Connection      | Plastic roller                  |                                 | High-grade steel roller         |                                 | Plastic roller                  |                                 |  |  |
|-------------------------------------|------------------|-------------|-----------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|--|--|
| Contacts                            | Contact elements |             |                 | ↔ v <sub>max.</sub> = 1.5 m/s → |  |  |
| 1 NO/1 NC                           | Slow action      | None        | 3 x (M20 x 1.5) | Complete units                  | 3SE5 122-0BH01                  | --                              | --                              | --                              | --                              |  |  |
|                                     |                  |             |                 | Basic switches                  | 3SE5 122-0BA00                  |  |  |
|                                     |                  |             |                 | + Actuator heads                | 3SE5 000-OAH00                  |  |  |
|                                     |                  |             |                 | + Twist levers                  | 3SE5 000-OAA01                  | 3SE5 000-OAA02                  | 3SE5 000-OAA02                  | 3SE5 000-OAA11                  | 3SE5 000-OAA11                  |  |  |
|                                     | Snap action      |             |                 | Complete units                  | 3SE5 122-0CH01                  | 3SE5 122-0CH02                  | --                              | --                              | --                              |  |  |
|                                     |                  |             |                 | Basic switches                  | 3SE5 122-0CA00                  |  |  |
|                                     |                  |             |                 | + Actuator heads                | 3SE5 000-OAH00                  |  |  |
|                                     |                  |             |                 | + Twist levers                  | 3SE5 000-OAA01                  | 3SE5 000-OAA02                  | 3SE5 000-OAA02                  | 3SE5 000-OAA11                  | 3SE5 000-OAA11                  |  |  |
| 1 NO/2 NC                           | Slow action      | None        | 3 x (M20 x 1.5) | Complete units                  | 3SE5 122-0KH01                  | --                              | --                              | --                              | --                              |  |  |
|                                     |                  |             |                 | Basic switches                  | 3SE5 122-0KA00                  |  |  |
|                                     |                  |             |                 | + Actuator heads                | 3SE5 000-OAH00                  |  |  |
|                                     |                  |             |                 | + Twist levers                  | 3SE5 000-OAA01                  | 3SE5 000-OAA02                  | 3SE5 000-OAA02                  | 3SE5 000-OAA11                  | 3SE5 000-OAA11                  |  |  |
|                                     |                  |             |                 | 2 LEDs, yellow/green, 24 V DC   | 3 x (M20 x 1.5)                 | Complete units                  | --                              | --                              | --                              |  |  |
|                                     |                  |             |                 | Basic switches                  | 3SE5 122-1KA00                  |  |  |
|                                     |                  |             |                 | + Actuator heads                | 3SE5 000-OAH00                  |  |  |
|                                     |                  |             |                 | + Twist levers                  | 3SE5 000-OAA01                  | 3SE5 000-OAA02                  | 3SE5 000-OAA02                  | 3SE5 000-OAA11                  | 3SE5 000-OAA11                  |  |  |
|                                     | Snap action      | None        | 3 x (M20 x 1.5) | Complete units                  | 3SE5 122-0LH01                  | 3SE5 122-0LH02                  | --                              | --                              | --                              |  |  |
|                                     |                  |             |                 | Basic switches                  | 3SE5 122-0LA00                  |  |  |
|                                     |                  |             |                 | + Actuator heads                | 3SE5 000-OAH00                  |  |  |
|                                     |                  |             |                 | + Twist levers                  | 3SE5 000-OAA01                  | 3SE5 000-OAA02                  | 3SE5 000-OAA02                  | 3SE5 000-OAA11                  | 3SE5 000-OAA11                  |  |  |
|                                     |                  |             |                 | 2 LEDs, yellow/green, 24 V DC   | 3 x (M20 x 1.5)                 | Complete units                  | --                              | --                              | --                              |  |  |
|                                     |                  |             |                 | Basic switches                  | 3SE5 122-1LA00                  |  |  |
|                                     |                  |             |                 | + Actuator heads                | 3SE5 000-OAH00                  |  |  |
|                                     |                  |             |                 | + Twist levers                  | 3SE5 000-OAA01                  | 3SE5 000-OAA02                  | 3SE5 000-OAA02                  | 3SE5 000-OAA11                  | 3SE5 000-OAA11                  |  |  |
| 2 NO/1 NC                           | Slow action      | None        | 1 x (M20 x 1.5) | Complete units                  | --                              | --                              | --                              | --                              | --                              |  |  |
|                                     |                  |             |                 | Basic switches                  | 3SE5 122-0PA00                  |  |  |
|                                     |                  |             |                 | + Actuator heads                | 3SE5 000-OAH00                  |  |  |
|                                     |                  |             |                 | + Twist levers                  | 3SE5 000-OAA01                  | 3SE5 000-OAA02                  | 3SE5 000-OAA02                  | 3SE5 000-OAA11                  | 3SE5 000-OAA11                  |  |  |
| 1 NO/2 NC<br>With make-before-break | Slow action      | None        | 1 x (M20 x 1.5) | Complete units                  | --                              | --                              | --                              | --                              | --                              |  |  |
|                                     |                  |             |                 | Basic switches                  | 3SE5 122-0MA00                  |  |  |
|                                     |                  |             |                 | + Actuator heads                | 3SE5 000-OAH00                  |  |  |
|                                     |                  |             |                 | + Twist levers                  | 3SE5 000-OAA01                  | 3SE5 000-OAA02                  | 3SE5 000-OAA02                  | 3SE5 000-OAA11                  | 3SE5 000-OAA11                  |  |  |

For ordering notes see page 9.

| Twist actuators (switching right and/or left, adjustable)                         |   |   |  |   | Fork lever actuators  |
|---|---|---|--|---|---|
|  |   |   |  |   |  |
| <b>Length-adjustable twist lever</b>  |   |   |  |   |   |
| Metal lever   |   |   | Aluminum   | Plastic                                       | Metal lever   |
| Plastic roller  | High-grade steel roller                       | With latching holes, plastic roller                       |  |   | Plastic roller  |
| $\leftrightarrow v_{\max.} = 1.5 \text{ m/s}$                                     | $\leftrightarrow v_{\max.} = 1.5 \text{ m/s}$ | $\leftrightarrow v_{\max.} = 1.5 \text{ m/s} \rightarrow$ | $\leftrightarrow v_{\max.} = 1.5 \text{ m/s}$                                      | $\leftrightarrow v_{\max.} = 1.5 \text{ m/s}$ | $\leftrightarrow v_{\max.} = 1.5 \text{ m/s} \rightarrow$                           |
| 3SE5 122-0BH50  | --  | 3SE5 122-0BH60  | --   | --  | --  |
| 3SE5 122-0BA00  | 3SE5 122-0BA00                                | 3SE5 122-0BA00  | 3SE5 122-0BA00   | 3SE5 122-0BA00                                | --  |
| 3SE5 000-0AH00  | 3SE5 000-0AH00                                | 3SE5 000-0AH00  | 3SE5 000-0AH00   | 3SE5 000-0AH00                                | --  |
| 3SE5 000-0AA50  | 3SE5 000-0AA51                                | 3SE5 000-0AA60  | 3SE5 000-0AA80   | 3SE5 000-0AA82                                | --  |
| 3SE5 122-0CH50  | --  | 3SE5 122-0CH60  | 3SE5 122-0CH80   | 3SE5 122-0CH82                                | 3SE5 122-OCT11  |
| 3SE5 122-0CA00  | 3SE5 122-0CA00                                | 3SE5 122-0CA00  | 3SE5 122-0CA00   | 3SE5 122-0CA00                                | 3SE5 122-0CA00  |
| 3SE5 000-0AH00  | 3SE5 000-0AH00                                | 3SE5 000-0AH00  | 3SE5 000-0AH00   | 3SE5 000-0AH00                                | 3SE5 000-0AT10  |
| 3SE5 000-0AA50  | 3SE5 000-0AA51                                | 3SE5 000-0AA60  | 3SE5 000-0AA80   | 3SE5 000-0AA82                                | 3SE5 000-0AT01  |
| --  | --  | --  | --   | --  | --  |
| 3SE5 122-0KA00  | 3SE5 122-0KA00                                | 3SE5 122-0KA00  | 3SE5 122-0KA00   | 3SE5 122-0KA00                                | --  |
| 3SE5 000-0AH00  | 3SE5 000-0AH00                                | 3SE5 000-0AH00  | 3SE5 000-0AH00   | 3SE5 000-0AH00                                | --  |
| 3SE5 000-0AA50  | 3SE5 000-0AA51                                | 3SE5 000-0AA60  | 3SE5 000-0AA80   | 3SE5 000-0AA82                                | --  |
| --  | --  | --  | --   | --  | --  |
| 3SE5 122-1KA00  | 3SE5 122-1KA00                                | 3SE5 122-1KA00  | 3SE5 122-1KA00   | 3SE5 122-1KA00                                | --  |
| 3SE5 000-0AH00  | 3SE5 000-0AH00                                | 3SE5 000-0AH00  | 3SE5 000-0AH00   | 3SE5 000-0AH00                                | --  |
| 3SE5 000-0AA50  | 3SE5 000-0AA51                                | 3SE5 000-0AA60  | 3SE5 000-0AA80   | 3SE5 000-0AA82                                | --  |
| 3SE5 122-0LH50  | --  | 3SE5 122-0LH60  | --   | --  | --  |
| 3SE5 122-0LA00  | 3SE5 122-0LA00                                | 3SE5 122-0LA00  | 3SE5 122-0LA00   | 3SE5 122-0LA00                                | 3SE5 122-0LA00  |
| 3SE5 000-0AH00  | 3SE5 000-0AH00                                | 3SE5 000-0AH00  | 3SE5 000-0AH00   | 3SE5 000-0AH00                                | 3SE5 000-0AT10  |
| 3SE5 000-0AA50  | 3SE5 000-0AA51                                | 3SE5 000-0AA60  | 3SE5 000-0AA80   | 3SE5 000-0AA82                                | 3SE5 000-0AT01  |
| --  | --  | --  | --   | --  | --  |
| 3SE5 122-1LA00  | 3SE5 122-1LA00                                | 3SE5 122-1LA00  | 3SE5 122-1LA00   | 3SE5 122-1LA00                                | 3SE5 122-1LA00  |
| 3SE5 000-0AH00  | 3SE5 000-0AH00                                | 3SE5 000-0AH00  | 3SE5 000-0AH00   | 3SE5 000-0AH00                                | 3SE5 000-0AT10  |
| 3SE5 000-0AA50  | 3SE5 000-0AA51                                | 3SE5 000-0AA60  | 3SE5 000-0AA80   | 3SE5 000-0AA82                                | 3SE5 000-0AT01  |
| --  | --  | --  | --   | --  | --  |
| 3SE5 122-0PA00  | 3SE5 122-0PA00                                | 3SE5 122-0PA00  | 3SE5 122-0PA00   | 3SE5 122-0PA00                                | 3SE5 122-0PA00  |
| 3SE5 000-0AH00  | 3SE5 000-0AH00                                | 3SE5 000-0AH00  | 3SE5 000-0AH00   | 3SE5 000-0AH00                                | 3SE5 000-0AT10  |
| 3SE5 000-0AA50  | 3SE5 000-0AA51                                | 3SE5 000-0AA60  | 3SE5 000-0AA80   | 3SE5 000-0AA82                                | 3SE5 000-0AT01  |
| --  | --  | --  | --   | --  | --  |
| 3SE5 122-0MA00  | 3SE5 122-0MA00                                | 3SE5 122-0MA00  | 3SE5 122-0MA00   | 3SE5 122-0MA00                                | 3SE5 122-0MA00  |
| 3SE5 000-0AH00  | 3SE5 000-0AH00                                | 3SE5 000-0AH00  | 3SE5 000-0AH00   | 3SE5 000-0AH00                                | 3SE5 000-0AT10  |
| 3SE5 000-0AA50  | 3SE5 000-0AA51                                | 3SE5 000-0AA60  | 3SE5 000-0AA80   | 3SE5 000-0AA82                                | 3SE5 000-0AT01  |

**Standard position switches**  
**Metal enclosure 56 mm XL**  
 4 or 6 contacts  
 Operating points acc. to EN 50041  
 IP66/IP67

Complete unit and  
 Module selection



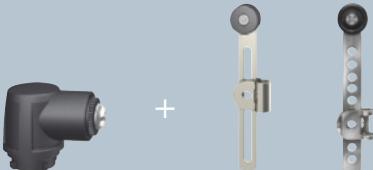
| Contact blocks    |  | Connection      | Plain plungers  | Rounded plungers  | Roller plungers  |
|-------------------|--|-----------------|---|---|--|
| Contacts          | Contact elements                       |                 | High-grade steel plunger<br>↓ v <sub>max.</sub> = 1.5 m/s ↗ | High-grade steel plunger,<br>with overtravel<br>↓ v <sub>max.</sub> = 1.5 m/s ↗ | High-grade steel roller,<br>with overtravel<br>↔ v <sub>max.</sub> = 1 m/s ↗ |
| 2 x (1 NO + 1 NC) | Snap action                            | 3 x (M20 x 1.5) | Complete units  | 3SE5162-0CB01   | --   |
|                   |  |                 | Basic switches  | 3SE5162-0CA00   | 3SE5162-0CA00  |
|                   |  |                 | + Actuator heads  | 3SE5 000-0AB01  | 3SE5 000-0AC02   |
|                   | Slow action                            | 3 x (M20 x 1.5) | Complete units  | --  | --   |
|                   |  |                 | Basic switches  | 3SE5162-0BA00   | 3SE5162-0BA00  |
|                   |  |                 | + Actuator heads  | 3SE5 000-0AB01  | 3SE5 000-0AC02   |
| 2 x (1 NO + 2 NC) | Slow action,<br>with make-before-break | 3 x (M20 x 1.5) | Complete units  | --  | --   |
|                   |  |                 | Basic switches  | 3SE5162-0DA00   | 3SE5162-0DA00  |
|                   |  |                 | + Actuator heads  | 3SE5 000-0AB01  | 3SE5 000-0AC02   |
|                   |  |                 |   |   |  |



Twist lever

| Contact blocks    |  | Connection      | Metal lever                                       | High-grade steel lever                                     |
|-------------------|--|-----------------|---|--|
| Contacts          | Contact elements                       |                 | Plastic roller<br>↔ v <sub>max.</sub> = 1.5 m/s ↗ | High-grade steel roller<br>↔ v <sub>max.</sub> = 1.5 m/s ↗ |
| 2 x (1 NO + 1 NC) | Snap action                            | 3 x (M20 x 1.5) | Complete units                                    | 3SE5162-0CH01  |
|                   |  |                 | Basic switches                                    | 3SE5162-0CA00  |
|                   |  |                 | + Actuator heads                                  | 3SE5000-0AH00  |
|                   | Slow action                            | 3 x (M20 x 1.5) | + Twist levers                                    | 3SE5000-0AA01  |
|                   |  |                 | Complete units                                    | --   |
|                   |  |                 | Basic switches                                    | 3SE5162-0BA00  |
| 2 x (1 NO + 2 NC) | Slow action,<br>with make-before-break | 3 x (M20 x 1.5) | + Actuator heads                                  | 3SE5000-0AH00  |
|                   |  |                 | + Twist levers                                    | 3SE5000-0AA01  |
|                   |  |                 | Complete units                                    | --   |
|                   |  |                 | Basic switches                                    | 3SE5162-0DA00  |
|                   |  |                 | + Actuator heads                                  | 3SE5000-0AH00  |
|                   |  |                 | + Twist levers                                    | 3SE5000-0AA01  |
|                   |  |                 |   |  |

For ordering notes see page 9.

| Roller levers   |  | Angular roller levers   |  | Spring rod actuators   |
|---|--|---|--|--|
|    |  |          |  |                       |
| Metal lever   |  | Metal lever   |  |  |
| Plastic roller<br>$\leftarrow v_{\max.} = 2.5 \text{ m/s}$ ↗                        | High-grade steel roller<br>$\leftarrow v_{\max.} = 2.5 \text{ m/s}$ ↗    | Plastic roller<br>$\uparrow v_{\max.} = 2.5 \text{ m/s}$ ↗                                | High-grade steel roller<br>$\uparrow v_{\max.} = 2.5 \text{ m/s}$ ↗                  | Plastic plunger,<br>total length 142.5 mm<br>Starting from any<br>direction, $v_{\max.} = 1 \text{ m/s}$ |
| 3SE5162-0CE01   | 3SE5162-0CE02  | 3SE5162-0CF01   | --   | --   |
| 3SE5162-0CA00   | 3SE5162-0CA00  | 3SE5162-0CA00   | 3SE5162-0CA00  | 3SE5162-0CA00  |
| 3SE5 000-0AE01  | 3SE5 000-0AE02   | 3SE5 000-0AF01  | 3SE5 000-0AF02   | 3SE5000-0AR01  |
|   |  |   |  |  |
| 3SE5162-0BE01   | --   | --  | --   | --   |
| 3SE5162-0BA00   | 3SE5162-0BA00  | 3SE5162-0BA00   | 3SE5162-0BA00  | --   |
| 3SE5 000-0AE01  | 3SE5 000-0AE02   | 3SE5 000-0AF01  | 3SE5 000-0AF02   | --   |
|   |  |   |  |  |
| --  | --   | --  | --   | --   |
| 3SE5162-0DA00   | 3SE5162-0DA00  | 3SE5162-0DA00   | 3SE5162-0DA00  | --   |
| 3SE5 000-0AE01  | 3SE5 000-0AE02   | 3SE5 000-0AF01  | 3SE5 000-0AF02   | --   |
|   |  |   |  |  |
| Twist actuators (switching right and/or left, adjustable)                           |  |   |  | Fork lever actuators   |
|  |  |   |  |  |
| Length-adjustable twist lever   |  |   | Rod actuator, 200 mm long  |  |
| Metal lever   |  |   | Aluminum   | Plastic  |
| Plastic roller<br>$\leftrightarrow v_{\max.} = 1.5 \text{ m/s}$                     | High-grade steel roller<br>$\leftrightarrow v_{\max.} = 1.5 \text{ m/s}$ | With latching holes,<br>plastic roller<br>$\leftrightarrow v_{\max.} = 1.5 \text{ m/s}$ ↗ | $\leftrightarrow v_{\max.} = 1.5 \text{ m/s}$  | $\leftrightarrow v_{\max.} = 1.5 \text{ m/s}$  |
| --  | --   | --  | --   | --   |
| 3SE5162-0CA00   | 3SE5162-0CA00  | 3SE5162-0CA00   | 3SE5162-0CA00  | 3SE5162-0CA00  |
| 3SE5000-0AH00   | 3SE5000-0AH00  | 3SE5000-0AH00   | 3SE5000-0AH00  | 3SE5000-0AH00  |
| 3SE5000-0AA50   | 3SE5000-0AA51  | 3SE5000-0AA60   | 3SE5000-0AA80  | 3SE5000-0AA82  |
| --  | --   | --  | --   | --   |
| 3SE5162-0BA00   | 3SE5162-0BA00  | 3SE5162-0BA00   | 3SE5162-0BA00  | 3SE5162-0BA00  |
| 3SE5000-0AH00   | 3SE5000-0AH00  | 3SE5000-0AH00   | 3SE5000-0AH00  | 3SE5000-0AH00  |
| 3SE5000-0AA50   | 3SE5000-0AA51  | 3SE5000-0AA60   | 3SE5000-0AA80  | 3SE5000-0AA82  |
| --  | --   | --  | --   | --   |
| 3SE5162-0DA00   | 3SE5162-0DA00  | 3SE5162-0DA00   | 3SE5162-0DA00  | 3SE5162-0DA00  |
| 3SE5000-0AH00   | 3SE5000-0AH00  | 3SE5000-0AH00   | 3SE5000-0AH00  | 3SE5000-0AH00  |
| 3SE5000-0AA50   | 3SE5000-0AA51  | 3SE5000-0AA60   | 3SE5000-0AA80  | 3SE5000-0AA82  |

## Standard position switches for use up to -40°C

Complete unit and  
Module selection

| Rounded plungers     | Roller plungers   | Roller levers  |   |
|----------------------|---|--|---|
| For metal enclosures | For plastic enclosures  |  |   |
|                      |   |  |   |
|                      |   |  |   |
|                      | For metal enclosures  |  |   |
|                      | High-grade steel plunger with overtravel<br>↓ v <sub>max.</sub> = 1.5 m/s ↗ | High-grade steel roller with overtravel<br>↔ v <sub>max.</sub> = 1 m/s ↗ | Plastic roller  |
|                      |   |  | Metal lever   |
|                      |   |  | High-grade steel lever<br>↔ v <sub>max.</sub> = 2.5 m/s ↗ |
|                      |   |  | ↔ v <sub>max.</sub> = 2.5 m/s ↗                           |

### Contact blocks

Contact elements    Width    Contacts

| Plastic housing, operating points and mounting according to EN 50047, IP65 (31 mm) and IP66/IP67 (50 mm) |       |            |                  |                     |                     |                     |                     |
|--|-------|------------|------------------|---------------------|---------------------|---------------------|---------------------|
| Slow action  | 31 mm | 1NO / 2 NC | Complete units   | 3SE5 232-0KC05-1AJ0 | --                  | --                  | --                  |
|  |       |            | Basic switches   | --                  | 3SE5 232-0KC05-1AJ0 | 3SE5 232-0KC05-1AJ0 | 3SE5 232-0KC05-1AJ0 |
|  |       |            | + Actuator heads | --                  | 3SE5 000-0AD03-1AJ0 | 3SE5 000-0AE10-1AJ0 | 3SE5 000-0AE12-1AJ0 |
|  | 50 mm | 1NO / 1 NC | Complete units   | 3SE5 242-0BC05-1AJ0 | --                  | --                  | --                  |
|  |       |            | Basic switches   | --                  | 3SE5 242-0BC05-1AJ0 | 3SE5 242-0BC05-1AJ0 | 3SE5 242-0BC05-1AJ0 |
|  |       |            | + Actuator heads | --                  | 3SE5 000-0AD03-1AJ0 | 3SE5 000-0AE10-1AJ0 | 3SE5 000-0AE12-1AJ0 |
| Snap action  | 31 mm | 1NO / 1 NC | Complete units   | 3SE5 232-0CC05-1AJ0 | --                  | --                  | --                  |
|  |       |            | Basic switches   | --                  | 3SE5 232-0CC05-1AJ0 | 3SE5 232-0CC05-1AJ0 | 3SE5 232-0CC05-1AJ0 |
|  |       |            | + Actuator heads | --                  | 3SE5 000-0AD03-1AJ0 | 3SE5 000-0AE10-1AJ0 | 3SE5 000-0AE12-1AJ0 |
|  | 31 mm | 1NO / 2 NC | Complete units   | 3SE5 232-0LC05-1AJ0 | --                  | --                  | --                  |
|  |       |            | Basic switches   | --                  | 3SE5 232-0LC05-1AJ0 | 3SE5 232-0LC05-1AJ0 | 3SE5 232-0LC05-1AJ0 |
|  |       |            | + Actuator heads | --                  | 3SE5 000-0AD03-1AJ0 | 3SE5 000-0AE10-1AJ0 | 3SE5 000-0AE12-1AJ0 |
|  | 50 mm | 1NO / 1 NC | Complete units   | 3SE5 242-0HC05-1AJ0 | --                  | --                  | --                  |
|  |       |            | Basic switches   | --                  | 3SE5 242-0HC05-1AJ0 | 3SE5 242-0HC05-1AJ0 | 3SE5 242-0HC05-1AJ0 |
|  |       |            | + Actuator heads | --                  | 3SE5 000-0AD03-1AJ0 | 3SE5 000-0AE10-1AJ0 | 3SE5 000-0AE12-1AJ0 |
|  |       |            | + Twist levers   | --                  | --                  | --                  | --                  |

### Metal enclosures, operating points and mounting according to EN 50041, IP66/IP67

| Metal enclosures, operating points and mounting according to EN 50041, IP66/IP67 |       |            |                  |                     |                     |                     |                     |
|--|-------|------------|------------------|---------------------|---------------------|---------------------|---------------------|
| Slow action  | 40 mm | 1NO / 2 NC | Complete units   | --                  | --                  | --                  | --                  |
|  |       |            | Basic switches   | 3SE5 112-0KA00-1AJ0 | 3SE5 112-0KA00-1AJ0 | 3SE5 112-0KA00-1AJ0 | 3SE5 112-0KA00-1AJ0 |
|  |       |            | + Actuator heads | 3SE5 000-0AC02-1AJ0 | 3SE5 000-0AD02-1AJ0 | 3SE5 000-0AE01-1AJ0 | 3SE5 000-0AE03-1AJ0 |
|  | 56 mm | 1NO / 2 NC | Complete units   | --                  | --                  | --                  | --                  |
|  |       |            | Basic switches   | 3SE5 122-0KA00-1AJ0 | 3SE5122-0KA00-1AJ0  | 3SE5122-0KA00-1AJ0  | 3SE5122-0KA00-1AJ0  |
|  |       |            | + Actuator heads | 3SE5 000-0AC02-1AJ0 | 3SE5 000-0AD02-1AJ0 | 3SE5 000-0AE01-1AJ0 | 3SE5 000-0AE03-1AJ0 |
| Snap action  | 40 mm | 1NO / 1 NC | Complete units   | --                  | --                  | --                  | --                  |
|  |       |            | Basic switches   | 3SE5 112-0CA00-1AJ0 | 3SE5 112-0CA00-1AJ0 | 3SE5 112-0CA00-1AJ0 | 3SE5 112-0CA00-1AJ0 |
|  |       |            | + Actuator heads | 3SE5 000-0AC02-1AJ0 | 3SE5 000-0AD02-1AJ0 | 3SE5 000-0AE01-1AJ0 | 3SE5 000-0AE03-1AJ0 |
|  | 40 mm | 1NO / 2 NC | Complete units   | --                  | --                  | --                  | --                  |
|  |       |            | Basic switches   | 3SE5 112-0LA00-1AJ0 | 3SE5 112-0LA00-1AJ0 | 3SE5 112-0LA00-1AJ0 | 3SE5 112-0LA00-1AJ0 |
|  |       |            | + Actuator heads | 3SE5 000-0AC02-1AJ0 | 3SE5 000-0AD02-1AJ0 | 3SE5 000-0AE01-1AJ0 | 3SE5 000-0AE03-1AJ0 |
|  | 56 mm | 1NO / 1 NC | Complete units   | --                  | --                  | --                  | --                  |
|  |       |            | Basic switches   | 3SE5 122-0CA00-1AJ0 | 3SE5 122-0CA00-1AJ0 | 3SE5 122-0CA00-1AJ0 | 3SE5 122-0CA00-1AJ0 |
|  |       |            | + Actuator heads | 3SE5 000-0AC02-1AJ0 | 3SE5 000-0AD02-1AJ0 | 3SE5 000-0AE01-1AJ0 | 3SE5 000-0AE03-1AJ0 |
|  | 56 mm | 1NO / 2 NC | Complete units   | --                  | --                  | --                  | --                  |
|  |       |            | Basic switches   | 3SE5 122-0LA00-1AJ0 | 3SE5 122-0LA00-1AJ0 | 3SE5 122-0LA00-1AJ0 | 3SE5 122-0LA00-1AJ0 |
|  |       |            | + Actuator heads | 3SE5 000-0AC02-1AJ0 | 3SE5 000-0AD02-1AJ0 | 3SE5 000-0AE01-1AJ0 | 3SE5 000-0AE03-1AJ0 |
|  |       |            | + Twist levers   | --                  | --                  | --                  | --                  |



# SIRIUS open-type standard position switches

## Convincing performers

**SIRIUS open-type standard position switches:**  
**with even greater compactness – IP10 (3 contacts),**  
**IP20 (2 contacts)**

Their compact design makes them particularly suitable for use in confined conditions.

Our open-type position switches are equipped as standard with two or three contacts.

The fixing dimensions are according to EN 50047.

### 3SE5 position switches, open-type

| Version  | Contacts    | Contact elements                   | Order No.      |
|--|-------------|------------------------------------|----------------|
| Plastic enclosures, 30 mm wide                     |             |                                    |                |
| Rounded plungers,<br>teflon Ø 6 mm,<br>6 mm stroke | 1 NO/1 NC   | Slow action                        | 3SE5 250-0BC05 |
|  |             | Snap action                        | 3SE5 250-0CC05 |
|  | 1 NO/2 NC   | Slow action                        | 3SE5 250-0KC05 |
|  |             | Snap action                        | 3SE5 250-0LC05 |
|  | 2 NO / 1 NC | Slow action                        | 3SE5 250-0PC05 |
|  | 1 NO/2 NC   | Slow action with make-before-break | 3SE5 250-0MC05 |



# SIRIUS compact design position switches

If you are looking for a reliable solution to detect mechanical motion, SIRIUS 3SE5 position switches offer the ideal solution for virtually every requirement. The new 3SE54 compact design position switch is special because it is supplied fully wired and complete with a molded cable 2 or 5 m in length or an M12 plug. Integrated positive opening operation ensures maximum safety, facilitating use in safety circuits up to Cat. 4 according to EN ISO 13849-1.

Just 16 mm deep and weighing only 80 g, the switch is incredibly compact and thus ideal for use wherever space is at a premium.

The compact position switches are available in two widths:

- A 30 mm wide enclosure with drilled holes at 20 mm intervals
- A 40 mm wide enclosure with drilled holes at 25 mm intervals

## The benefits:

- Very compact yet with the same rating as the 3SE51 standard position switches, thereby significantly saving space and thus ideal for use wherever space is at a premium
- Time is saved when mounting the fully assembled unit
- Ideal for use in harsh industrial environments thanks to metal enclosure with (high degree of protection IP67)
- Various drive versions are available, e.g., rounded and roller plunger as well as rotary handle
- Insensitive to electromagnetic interference



## Compact design position switches

| Rounded plungers  | Roller plungers   | Twist levers  |
|---|---|---|
|  |   |   |
|  |  |  |
|   | <b>With central fixing</b>  |   |
|   |    |  |
|   | <b>With external seal</b>   | <b>With M12 connector socket</b>  |

## Metal enclosures, 30 mm

| Contact blocks   |                  | Connection   |                     |                     |                     |
|------------------|------------------|--|---------------------|---------------------|---------------------|
| Contacts         | Contact elements |  |                     |                     |                     |
| 1 NO + 1 NC<br>→ | Snap action      | Standard mounting  |                     |                     |                     |
|                  |                  | - 2 m cable <sup>1)</sup>                                  | 3SE5 413-0CC20-1EA2 | 3SE5 413-0CD20-1EA2 | 3SE5 413-0CN20-1EA2 |
|                  |                  | - 5 m cable <sup>1)</sup>                                  | 3SE5 413-0CC20-1EA5 | 3SE5 413-0CD20-1EA5 | 3SE5 413-0CN20-1EA5 |
|                  |                  | - With M12 plug connector                                  | 3SE5 413-0CC20-1EB1 | 3SE5 413-0CD20-1EB1 | 3SE5 413-0CN20-1EB1 |
|                  |                  | Central fixing, 2 m cable <sup>1)</sup>                    | 3SE5 413-0CC21-1EA2 | 3SE5 413-0CD21-1EA2 | --                  |
|                  |                  | With external seal, 2 m cable <sup>1)</sup>                | 3SE5 413-0CC22-1EA2 | --                  | --                  |
|                  |                  | Actuator head rotated through 90°, 2 m cable <sup>1)</sup> | --                  | 3SE5 413-0CD23-1EA2 | --                  |

## Metal enclosures, 40 mm

| Contact blocks   |                  | Connection                                  |                     |                     |                     |
|------------------|------------------|---|---------------------|---------------------|---------------------|
| Contacts         | Contact elements |   |                     |                     |                     |
| 1 NO + 1 NC<br>→ | Snap action      | Standard mounting                           |                     |                     |                     |
|                  |                  | - 2 m cable <sup>1)</sup>                   | 3SE5 423-0CC20-1EA2 | 3SE5 423-0CD20-1EA2 | 3SE5 423-0CN20-1EA2 |
|                  |                  | - With M12 plug connector                   | 3SE5 423-0CC20-1EB1 | 3SE5 423-0CD20-1EB1 | 3SE5 423-0CN20-1EB1 |
|                  |                  | Central fixing, 2 m cable <sup>1)</sup>     | 3SE5 423-0CC21-1EA2 | 3SE5 423-0CD21-1EA2 | --                  |
|                  |                  | With external seal, 2 m cable <sup>1)</sup> | 3SE5 423-0CC22-1EA2 | --                  | --                  |

<sup>1)</sup> 5 x 0.75 mm<sup>2</sup>

# SIRIUS safety position switches

## Maximizing safety at field level

You can totally rely on SIRIUS detecting devices. Besides a wide range of reliable devices for standard applications, our portfolio also includes a whole family of detecting devices which are designed for use in safety circuits. These devices can be used in detection applications up to EN 954-1 Category 4 and IEC 62061 SIL3. Different switch types are available to handle a variety of applications.

Tamper-proof **position switches with separate actuator** are a good choice for checking the position of protective doors. **Position switches with interlock** are a reliable and safe solution when interlocking is needed to eliminate hazards, for example within the working range of a robotics system. **Hinge switches** with positive locking between the switch and the door hinge offer excellent tamper protection in pivoting door and cover applications. In other words: You get maximum safety and flexibility when you design SIRIUS detecting devices into your solutions.

Demand for safety position switches continues to increase, and customers expect that the switches will offer even better functionality. Because the switches play such an important role, we have developed a new generation of products which offers a whole range of additional functions.

### Special features:

- **Optional LED displays** are available for all enclosures to facilitate user-friendly on-site diagnosis.
- The entire **ASIsafe electronics are now integrated into the enclosure** – ASIsafe now does not take up any extra space.

Safety position switches with interlock now offer further new functions:

- **High locking forces** up to 2600 N (metal version) and 1300 N (plastic version)
- **A vast variety of additional release mechanisms** to handle any application.
- Direct connection to the ASi network with a **very low current load** of  $\leq 170$  mA
- **2 x 3 contacts** as standard



# Position switches with separate actuator: The safe solution with a proven track record

SIRIUS position switches with separate actuator are the ideal choice if you need to be absolutely sure that the safety mechanism on protective doors cannot be deactivated. Multiple mechanical coding virtually eliminates any possibility of tampering. The separate actuator is mounted directly on the protective door. When the door is closed, the actuator moves into

the opening on the switch. When the door is opened, the actuator is removed from the switch and the NC contacts open. The circuit is broken – safely and reliably. Full actuator head rotation in four 90° increments and approach from the top give you the flexibility you need for your application.

| 3SE5 position switches <sup>1)</sup> with separate actuator                            |   |                          |                     |
|--|---|--------------------------|---------------------|
| Contacts (slow-action)   | Version   | LED display              | Order No.           |
| <b>Plastic enclosures according to EN 50047 (31 mm wide), 5 directions of approach</b> |   |                          |                     |
| 1 NO/1 NC  | 1 x (M20 x 1.5)   | None                     | 3SE5 232-0RV40      |
|  |   | Yellow + green, 24 V DC  | 3SE5 232-1RV40      |
|  |   | Yellow + green, 230 V AC | 3SE5 232-3RV40      |
|  | M12 plug, 5-pole<br>(1 NO/1 NC connected); max. 24 V DC, 4 A                                    | Yellow + green, 24 V DC  | 3SE5 234-1RV40-1AF3 |
| 1 NO/2 NC  | M12 plug, 4-pole<br>(1 NO/1 NC connected); max. 250 V AC, 4 A                                   | None                     | 3SE5 234-0RV40-1AC4 |
|  | 1 x (M20 x 1.5)   | None                     | 3SE5 232-0QV40      |
|  | M12 plug, 4-pole<br>(2 NC connected); max. 250 V AC, 4 A  | None                     | 3SE5 234-0QV40-1AE0 |
| <b>Metal enclosures according to EN 50047 (31 mm wide), 5 directions of approach</b>   |   |                          |                     |
| 1 NO/1 NC  | 1 x (M20 x 1.5)   | None                     | 3SE5 212-0RV40      |
|  |   | Yellow + green, 24 V DC  | 3SE5 212-1RV40      |
|  |   | Yellow + green, 230 V AC | 3SE5 212-3RV40      |
| 1 NO/2 NC  | 1 x (M20 x 1.5)   | None                     | 3SE5 212-0QV40      |
| <b>Plastic enclosures according to EN 50041 (40 mm wide), 5 directions of approach</b> |   |                          |                     |
| 1 NO/2 NC  | 1 x (M20 x 1.5)   | None                     | 3SE5 132-0QV10      |
|  |   | Yellow + green, 24 V DC  | 3SE5 132-1QV10      |
|  |   | Yellow + green, 230 V AC | 3SE5 132-3QV10      |
| <b>Plastic enclosures (50 mm wide), 5 directions of approach</b>                       |   |                          |                     |
| 1 NO/2 NC  | 2 x (M20 x 1.5)   | None                     | 3SE5 242-0QV40      |
|  |   | Yellow + green, 24 V DC  | 3SE5 242-1QV40      |
|  |   | Yellow + green, 230 V AC | 3SE5 242-3QV40      |
| <b>Metal enclosures according to EN 50041 (40 mm), 5 directions of approach</b>        |   |                          |                     |
| 1 NO/1 NC  | M12 plug, plastic, 5-pole<br>(1 NO/1 NC connected); max. 24 V DC, 4 A                           | Yellow + green, 24 V DC  | 3SE5 114-1RV10-1AF3 |
|  | M12 plug, plastic, 5-pole,<br>(1 NO/1 NC, PE connected); max. 125 V AC/DC, 4 A                  | None                     | 3SE5 114-0RV10-1AC5 |
|  | Plug 6 + PE according to EN 43651, plastic<br>(1 NO/1 NC and PE connected); max. 24 V DC, 10 A  | Yellow + green, 24 V DC  | 3SE5 115-1RV10-1AF2 |
|  | Plug 6 + PE according to EN 43651, plastic<br>(1 NO/1 NC and PE connected); max. 250 V AC, 10 A | None                     | 3SE5 115-0QV10-1AD1 |
| 1 NO/2 NC  | 1 x (M20 x 1.5)   | None                     | 3SE5 112-0QV10      |
|  |   | Yellow + green, 24 V DC  | 3SE5 112-1QV10      |
|  |   | Yellow + green, 230 V AC | 3SE5 112-3QV10      |
| 2 NC   | M12 plug, plastic, 5-pole,<br>(2 NC, PE connected); max. 24 V AC/DC, 4 A                        | None                     | 3SE5 114-0QV10-1AE1 |
| <b>Metal enclosures (56 mm wide), 5 directions of approach</b>                         |   |                          |                     |
| 1 NO/2 NC  | 3 x (M20 x 1.5)   | None                     | 3SE5 122-0QV10      |
|  |   | Yellow + green, 24 V DC  | 3SE5 122-1QV10      |
|  |   | Yellow + green, 230 V AC | 3SE5 122-3QV10      |

<sup>1)</sup> With a 3SE51/52 position switch it is possible to achieve Category 3 according to ISO 13849-1 (EN 954-1) or SIL 3 according to IEC 61508. Category 4

according to ISO 13849-1 (EN 954-1) or SIL 3 according to IEC 61508 can be achieved by using a second 3SE51/52 position switch.

### Actuators for 3SE5/3SF1 position switches with separate actuator

|   |   |                                       |
|---|---|---------------------------------------|
|  | Standard actuators  | 3SE5 000-0AV01                        |
|  | Actuators with vertical fixing  | 3SE5 000-0AV02                        |
|  | Actuators with transverse fixing                                      | 3SE5 000-0AV03                        |
|  | Radius actuators, left  | 3SE5 000-0AV04                        |
|  | Radius actuators, right   | 3SE5 000-0AV06                        |
|  | Universal radius actuators  | 3SE5 000-0AV05                        |
|  | Universal radius actuator, heavy-duty<br>Length 77 mm<br>Length 67 mm | 3SE5 000-0AV07<br>3SE5 000-0AV07-1AK2 |

The position switches with separate actuator can only be operated with the matching coded actuator.

Simple overruling by hand or auxiliary devices is impossible.  
The actuators are not included in the scope of supply of the switch and must be ordered separately.

For optional accessories for 3SE5 see Catalog IC 10, Chapter 9.



# SIRIUS position switches with interlocking: Clever and reliable

When protective doors have to remain closed while a machine is being shut down, for example to prevent access to the working range of a robotic system, SIRIUS position switches with separate actuator and additional electromagnetic interlock are the best solution. An integrated auxiliary solenoid keeps the door locked until a specific signal has been received. Not even a force of 2600 N is sufficient to remove the actuator. A safety mechanism to prevent unwanted closing ensures that the NC contacts of the solenoid never close even when the door is open. The switch can be released manually using an auxiliary release mechanism if, for example, access is required following a voltage failure or during installation. Some of the outstanding standard features include an integrated interlock with 24 V, 115 V or 230 V coil voltage, 6 switching contacts and separate position sensing for the solenoid and the protective door. Optical status monitoring is also available.

## Special features:

- **Higher locking forces** (2600 N on the metal version, 1300 N on the plastic versions) guarantee enhanced safety even in harsh industrial environments.
- **2 x 3 contacts are included as standard.** Two NC contacts and one NO contact are provided for solenoid and actuator monitoring.
- **The new, innovative ASIsafe solution** with integrated module, which has been designed with the focus on safety, greatly reduces the load on the data line. The maximum power consumption of the solenoid is 170 mA.
- **A wide variety of additional release mechanisms** to handle any application: auxiliary trip mechanism, lock release, escape release and emergency release.
- **The actuator heads can be rotated in four 90° increments**
- Directions of actuation: 4 x lateral and front-end

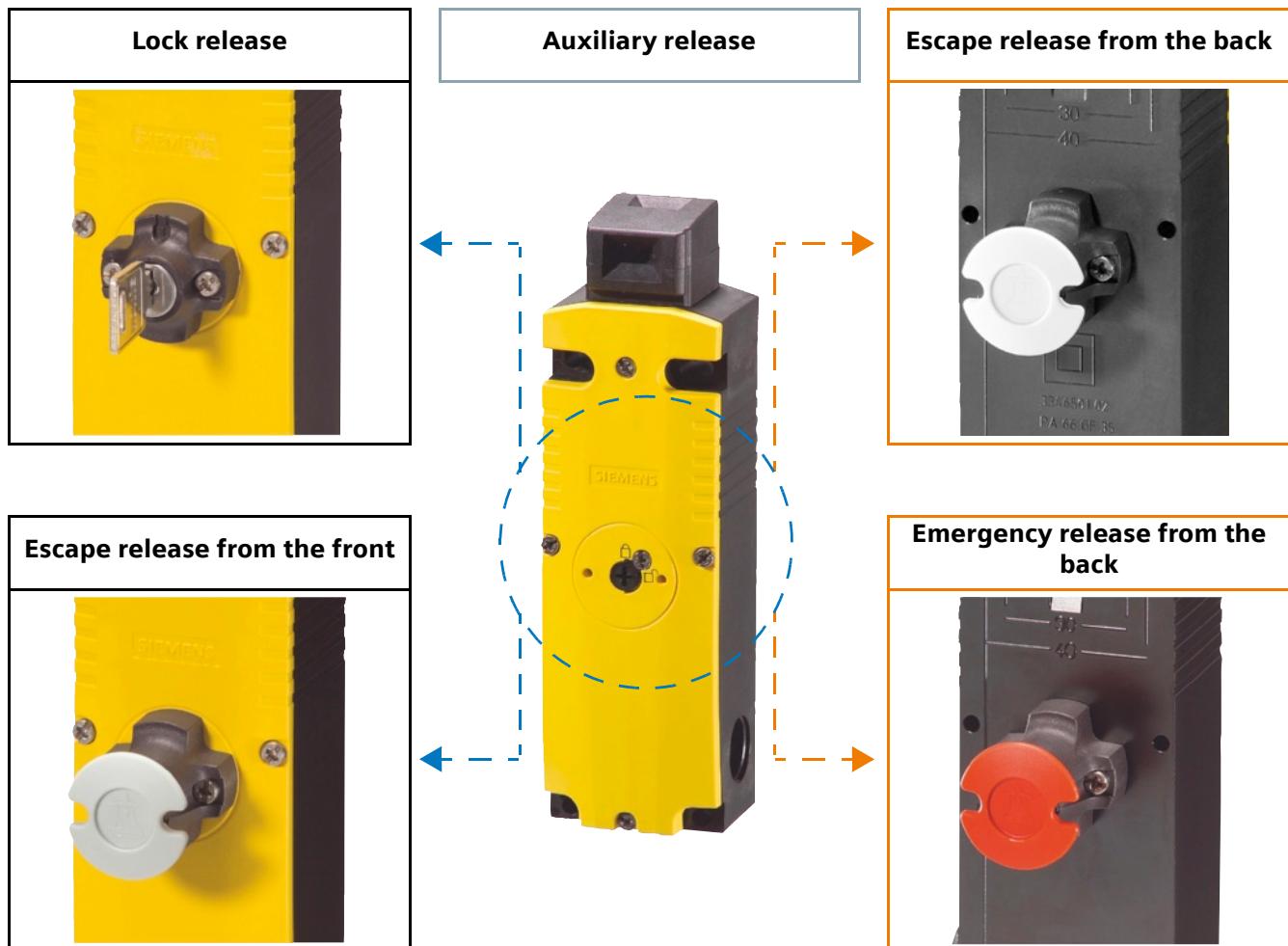
With a 3SE53 position switch it is possible to achieve Category 3 according to ISO 13849-1 (EN 954-1) or SIL 2 according to IEC 61508.

Category 4 according to ISO 13849-1 (EN 954-1) or SIL 3 according to IEC 61508 can be achieved by using a second 3SE51/52 position switch.



# Position switches with interlock

## Release variants



- Personnel working inside the hazard zone can use the **escape release** feature to manually release the interlock without tools so that they can exit the hazard area. Operation is from the escape side (hazard area). An intentional act (in this case pulling the gray actuator) is required to release the locking mechanism and restore the normal operating state.

(Source: GS-ET 19)

- Emergency release** enables someone outside of the hazard zone to manually release the interlock without tools in an emergency situation. Releasing the lock and restoring the normal operating state must require effort which is comparable to repair activity, in this case disassembly of the red actuator and resetting the mechanical lock.

### 3SE5 position switches<sup>1)</sup> with interlock, complete units

| Version   | Release  | Solenoid voltage | LED display  | Plastic enclosures<br>Locking force 1300 N<br>(1000 N according to<br>GS-ET19) | Metal enclosures<br>Locking force 2600 N<br>(2000 N according to<br>GS-ET19) |
|---|--|------------------|--------------|--|--|
|   |  |                  |              | Order No.  | Order No.  |
| Spring-type interlocking<br>(closed-circuit principle)<br>Actuator contacts<br>1 NO/2 NC<br>Solenoid contacts<br>1 NO/2 NC                                  | Auxiliary release<br>   | 24 V DC          | --           | 3SE5 322-0SD21   | 3SE5 312-0SD11   |
|   |  |                  | Yellow/Green | 3SE5 322-1SD21   | 3SE5 312-1SD11   |
|   |  | 115 V AC         | --           | 3SE5 322-0SD22   | 3SE5 312-0SD12   |
|   |  |                  | Yellow/Green | 3SE5 322-2SD22   | 3SE5 312-2SD12   |
|   |  | 230 V AC         | --           | 3SE5 322-0SD23   | 3SE5 312-0SD13   |
|   |  |                  | Yellow/Green | 3SE5 322-3SD23   | 3SE5 312-3SD13   |
|   | Auxiliary release<br>with lock<br>                                      | 24 V DC          | --           | 3SE5 322-0SE21   | 3SE5 312-0SE11   |
|   |  |                  | Yellow/Green | 3SE5 322-1SE21   | 3SE5 312-1SE11   |
|   |  | 115 V AC         | --           | 3SE5 322-0SE22   | 3SE5 312-0SE12   |
|   |  |                  | Yellow/Green | 3SE5 322-2SE22   | 3SE5 312-2SE12   |
|   |  | 230 V AC         | --           | 3SE5 322-0SE23   | 3SE5 312-0SE13   |
|   |  |                  | Yellow/Green | 3SE5 322-3SE23   | 3SE5 312-3SE13   |
| Escape release<br>from the front<br>                                      | Escape release<br>from the front   | 24 V DC          | --           | 3SE5 322-0SF21   | 3SE5 312-0SF11   |
|   |  |                  | Yellow/Green | 3SE5 322-1SF21   | 3SE5 312-1SF11   |
|   |  | 115 V AC         | --           | 3SE5 322-0SF22   | 3SE5 312-0SF12   |
|   |  |                  | Yellow/Green | 3SE5 322-2SF22   | 3SE5 312-2SF12   |
|   |  | 230 V AC         | --           | 3SE5 322-0SF23   | 3SE5 312-0SF13   |
|   |  |                  | Yellow/Green | 3SE5 322-3SF23   | 3SE5 312-3SF13   |
|   | Escape release from the back and auxiliary release from the front<br> | 24 V DC          | --           | 3SE5 322-0SG21   | 3SE5 312-0SG11   |
|   |  |                  | Yellow/Green | 3SE5 322-1SG21   | 3SE5 312-1SG11   |
|   |  | 115 V AC         | --           | 3SE5 322-0SG22   | 3SE5 312-0SG12   |
|   |  |                  | Yellow/Green | 3SE5 322-2SG22   | 3SE5 312-2SG12   |
|   |  | 230 V AC         | --           | 3SE5 322-0SG23   | 3SE5 312-0SG13   |
|   |  |                  | Yellow/Green | 3SE5 322-3SG23   | 3SE5 312-3SG13   |
| Emergency release from the back and auxiliary release from the front<br> | Emergency release from the back and auxiliary release from the front   | 24 V DC          | --           | 3SE5 322-0SJ21   | 3SE5 312-0SJ11   |
|   |  |                  | Yellow/Green | 3SE5 322-1SJ21   | 3SE5 312-1SJ11   |
|   |  | 115 V AC         | --           | 3SE5 322-0SJ22   | 3SE5 312-0SJ12   |
|   |  |                  | Yellow/Green | 3SE5 322-2SJ22   | 3SE5 312-2SJ12   |
|   |  | 230 V AC         | --           | 3SE5 322-0SJ23   | 3SE5 312-0SJ13   |
|   |  |                  | Yellow/Green | 3SE5 322-3SJ23   | 3SE5 312-3SJ13   |
|   | Solenoid field lock<br>(open-circuit principle)<br>Actuator contacts<br>1 NO/2 NC<br>Solenoid contacts<br>1 NO/2 NC                                      | 24 V DC          | --           | 3SE5 322-0SB21   | 3SE5 312-0SB11   |
|   |  |                  | Yellow/Green | 3SE5 322-1SB21   | 3SE5 312-1SB11   |
|   |  | 115 V AC         | --           | 3SE5 322-0SB22   | 3SE5 312-0SB12   |
|   |  |                  | Yellow/Green | 3SE5 322-2SB22   | 3SE5 312-2SB12   |
|   |  | 230 V AC         | --           | 3SE5 322-0SB23   | 3SE5 312-0SB13   |
|   |  |                  | Yellow/Green | 3SE5 322-3SB23   | 3SE5 312-3SB13   |

<sup>1)</sup> With a 3SE5 position switch it is possible to achieve Category 3 according to ISO 13849-1 (EN 954-1) or SIL 2 according to IEC 61508.  
Category 4 according to ISO 13849-1 (EN 954-1) or SIL 3 according to IEC 61508 can be achieved by using a second 3SE51/52 position switch.

### Actuators for 3SE5/3SF1 position switches with interlock

|   |   |                                       |
|---|---|---------------------------------------|
|  | Standard actuators  | 3SE5 000-0AV01                        |
|  | Actuators with vertical fixing  | 3SE5 000-0AV02                        |
|  | Actuators with transverse fixing                                      | 3SE5 000-0AV03                        |
|  | Radius actuators, left  | 3SE5 000-0AV04                        |
|  | Radius actuators, right   | 3SE5 000-0AV06                        |
|  | Universal radius actuators  | 3SE5 000-0AV05                        |
|  | Universal radius actuator, heavy-duty<br>Length 77 mm<br>Length 67 mm | 3SE5 000-0AV07<br>3SE5 000-0AV07-1AK2 |

The position switches with interlock can only be operated with the matching coded actuator.

Simple overruling by hand or auxiliary devices is impossible.  
The actuators are not included in the scope of supply of the switch and must be ordered separately.

For optional accessories for 3SE5 see Catalog IC 10, Chapter 9.

# SIRIUS hinge switches tamper-proof

Our range of hinge switches rounds off the range of position switches for monitoring hinged doors and hinge switches. With their fixed, positive connection between the switch and the door hinge directly at the pivoting point of the protection device, these mechanical switches offer excellent protection from overruling and tampering. And the same time hinge switches in standard enclosures according to EN 50047 and EN 50041 have a very small operating angle of just 10°. Simultaneous shutdown and reporting is provided in addition by the 1 NO/1 NC snap-action contacts.

SIRIUS hinge switches are available as complete units only.



## 3SE5 hinge switches, complete units

| Contacts   | Contact elements       | Hollow shaft $\varnothing_{\text{internal}} = 8 \text{ mm}$ , $\varnothing_{\text{external}} = 12 \text{ mm}$<br>Operating angle 10° | Solid shaft $\varnothing = 10 \text{ mm}$<br>Operating angle 10° |
|--|------------------------|--|--|
| <b>Plastic enclosures according to EN 50047 (31 mm wide), mounting on hinges</b> |                        |  |  |
|  | 1 NO/1 NC<br>1 NO/2 NC | Snap action<br>Snap action   | 3SE5 232-0HU21<br>3SE5 232-0LU21                                 |
|  | 1 NO/2 NC              | Snap action  | 3SE5 212-0LU21   |
| <b>Metal enclosures according to EN 50047 (31 mm wide), mounting on hinges</b>   |                        |  |  |
|  | 1 NO/2 NC              | Snap action  | 3SE5 212-0LU22   |
| <b>Metal enclosures according to EN 50041 (40 mm wide), mounting on hinges</b>   |                        |  |  |
|  | 1 NO/2 NC              | Snap action  | 3SE5 112-0LU21   |
| <b>Plastic enclosures according to EN 50041 (40 mm wide), mounting on hinges</b> |                        |  |  |
|  | 1 NO/2 NC              | Snap action  | 3SE5 132-0LU21   |
|  |                        |  | 3SE5 132-0LU22   |

# Position switches with ASIsafe electronics

## AS-Interface connections: Total flexibility



If you want to deploy networking solutions in your system, SIRIUS detecting devices are the ideal choice. All of the components can be used in AS-Interface system environments. This is because they comply with IEC 62026-2 and are fully compatible with familiar AS-Interface components such as master, slaves, power supply, etc. Hence they can be used together on the yellow AS-Interface cable. We supply all of the components you need to set up a safe AS-Interface network.

### Special features:

Our new generation of switches enables easy and fast connection to the AS-i network because:

- **All of the position switches in the 3SE5 range are available as 3SF position switches with integrated ASIsafe electronics:**
  - Standard position switches
  - Position switches with separate actuator
  - Position switches with interlock
  - Hinge switches
- **Connection to the AS-Interface system** is by means of an M12 plug.
- **Direct integration of the safety position switches with interlock in the AS-i network** results in a very low data line load, i.e. the maximum power consumption of the solenoid is 170 mA.
- In series connections, the **3SF1324-...-1BA4 position switch is ideal for interlocking protective doors**. As well as the ASIsafe standard, it also complies with safety category SIL 2/PL d and is equipped with a special logic: The user receives feedback from the solenoid and no longer has to open the protective door separately after the solenoid has released in order to restore their machine or system to a safe state. This speeds up restarting once the door has been released.



# 3SF1 standard position switches with integrated ASIsafe electronics

Status display with three LEDs integrated

Module selection

## Plastic enclosures



| Enclosures                              | Contacts | Contact elements | Connection  |
|---|----------|------------------|---|
| 31 mm wide,<br>according to<br>EN 50047 | 2 NC     | Slow action      | M12 plug,<br>4-pole;<br>channel 1 on<br>NC contact,<br>channel 2 on<br>NC contact       |
|   |          | Snap action      |   |
| 50 mm wide                              | 2 NC     | Slow action      | M12 plug,<br>4-pole;<br>channel 1 on<br>NC contact,<br>channel 2 on<br>M12 socket right |
|   |          | Snap action      |   |

| Rounded plungers   | Roller plungers   |
|--|---|
| Protective cap (optional)  |   |
| Teflon plunger integrated in basic switch<br>$\downarrow v_{max.} = 1 \text{ m/s}$ ↗ | Plastic roller<br>$\downarrow v_{max.} = 1 \text{ m/s}$ ↗ |

## Metal enclosures



| Enclosures                              | Contacts | Contact elements | Connection  |
|---|----------|------------------|---|
| 31 mm wide,<br>according to<br>EN 50047 | 2 NC     | Slow action      | M12 plug,<br>4-pole;<br>channel 1 on<br>NC contact,<br>channel 2 on<br>NC contact       |
|   |          | Snap action      |   |
| 40 mm wide,<br>according to<br>EN 50041 | 2 NC     | Slow action      | M12 plug,<br>4-pole;<br>channel 1 on<br>NC contact,<br>channel 2 on<br>NC contact       |
|   |          | Snap action      |   |
| 56 mm wide                              | 1 NC     | Slow action      | M12 plug,<br>4-pole;<br>channel 1 on<br>NC contact,<br>channel 2 on<br>M12 socket right |
|   |          | Snap action      |   |

| Plain plungers   | Rounded plungers   |
|--|--|
| High-grade steel plunger, with overtravel<br>$\downarrow v_{max.} = 1.5 \text{ m/s}$ ↗ | High-grade steel plunger, with overtravel<br>$\downarrow v_{max.} = 1 \text{ m/s}$ ↗ |
|  |  |

For ordering notes see page 9.

| Roller levers   |  | Angular roller levers   |  |
|---|--|---|--|
|  |  |  |  |
| Metal lever   | High-grade steel lever                   | Metal lever   | High-grade steel lever                   |
| Plastic roller  | Plastic roller                           | High-grade steel roller   | Plastic roller                           |
| $\leftarrow v_{\max.} = 1 \text{ m/s}$ ↗  | $\leftarrow v_{\max.} = 1 \text{ m/s}$ ↗ | $\uparrow v_{\max.} = 1 \text{ m/s}$ ↗  | $\leftarrow v_{\max.} = 1 \text{ m/s}$ ↗ |
| 3SF1 234-1KC05-1BA1   | 3SF1 234-1KC05-1BA1                      | 3SF1 234-1KC05-1BA1   | 3SF1 234-1KC05-1BA1                      |
| 3SE5 000-0AE10  | 3SE5 000-0AE12                           | 3SE5 000-0AF10  | 3SE5 000-0AF12                           |
|   |  |   |  |
| 3SF1 234-1LC05-1BA1   | 3SF1 234-1LC05-1BA1                      | 3SF1 234-1LC05-1BA1   | 3SF1 234-1LC05-1BA1                      |
| 3SE5 000-0AE10  | 3SE5 000-0AE12                           | 3SE5 000-0AF10  | 3SE5 000-0AF12                           |
|   |  |   |  |
| 3SF1 244-1KC05-1BA2   | 3SF1 244-1KC05-1BA2                      | 3SF1 244-1KC05-1BA2   | 3SF1 244-1KC05-1BA2                      |
| 3SE5 000-0AE10  | 3SE5 000-0AE12                           | 3SE5 000-0AF10  | 3SE5 000-0AF12                           |
|   |  |   |  |
| 3SF1 244-1LC05-1BA2   | 3SF1 244-1LC05-1BA2                      | 3SF1 244-1LC05-1BA2   | 3SF1 244-1LC05-1BA2                      |
| 3SE5 000-0AE10  | 3SE5 000-0AE12                           | 3SE5 000-0AF10  | 3SE5 000-0AF12                           |

| Roller plungers  |                     | Roller levers  |                     | Angular roller levers   |                         |
|--|---------------------|--|---------------------|---|-------------------------|
|  |                     |  |                     |  |                         |
| High-grade steel roller  | Metal lever         |  | Metal lever         |   |                         |
| $\leftrightarrow v_{\max.} = 1 \text{ m/s}$ ↗                                      | Plastic roller      | $\leftarrow v_{\max.} = 1 \text{ m/s}$ ↗   | Plastic roller      | $\uparrow v_{\max.} = 2.5 \text{ m/s}$ ↗  | High-grade steel roller |
| 3SF1 214-1KC05-1BA1  | 3SF1 214-1KC05-1BA1 | 3SF1 214-1KC05-1BA1  | 3SF1 214-1KC05-1BA1 | 3SF1 214-1KC05-1BA1   | 3SF1 214-1KC05-1BA1     |
| 3SE5 000-OAD03   | 3SE5 000-0AE10      | 3SE5 000-0AE12   | 3SE5 000-0AF10      | 3SE5 000-0AF12  |                         |
|  |                     |  |                     |   |                         |
| 3SF1 214-1LC05-1BA1  | 3SF1 214-1LC05-1BA1 | 3SF1 214-1LC05-1BA1  | 3SF1 214-1LC05-1BA1 | 3SF1 214-1LC05-1BA1   |                         |
| 3SE5 000-OAD03   | 3SE5 000-0AE10      | 3SE5 000-0AE12   | 3SE5 000-0AF10      | 3SE5 000-0AF12  |                         |
|  |                     |  |                     |   |                         |
| 3SF1 114-1KA00-1BA1  | 3SF1 114-1KA00-1BA1 | 3SF1 114-1KA00-1BA1  | 3SF1 114-1KA00-1BA1 | 3SF1 114-1KA00-1BA1   |                         |
| 3SE5 000-OAD02   | 3SE5 000-0AE01      | 3SE5 000-0AE02   | 3SE5 000-0AF01      | 3SE5 000-0AF02  |                         |
|  |                     |  |                     |   |                         |
| 3SF1 114-1LA00-1BA1  | 3SF1 114-1LA00-1BA1 | 3SF1 114-1LA00-1BA1  | 3SF1 114-1LA00-1BA1 | 3SF1 114-1LA00-1BA1   |                         |
| 3SE5 000-OAD02   | 3SE5 000-0AE01      | 3SE5 000-0AE02   | 3SE5 000-0AF01      | 3SE5 000-0AF02  |                         |
|  |                     |  |                     |   |                         |
| 3SF1 124-1KA00-1BA2  | 3SF1 124-1KA00-1BA2 | 3SF1 124-1KA00-1BA2  | 3SF1 124-1KA00-1BA2 | 3SF1 124-1KA00-1BA2   |                         |
| 3SE5 000-OAD02   | 3SE5 000-0AE01      | 3SE5 000-0AE02   | 3SE5 000-0AF01      | 3SE5 000-0AF02  |                         |
|  |                     |  |                     |   |                         |
| 3SF1 124-1LA00-1BA2  | 3SF1 124-1LA00-1BA2 | 3SF1 124-1LA00-1BA2  | 3SF1 124-1LA00-1BA2 | 3SF1 124-1LA00-1BA2   |                         |
| 3SE5 000-OAD02   | 3SE5 000-0AE01      | 3SE5 000-0AE02   | 3SE5 000-0AF01      | 3SE5 000-0AF02  |                         |

# 3SF1 standard position switches with integrated ASIsafe electronics Status display with three LEDs integrated

Module selection

## Plastic enclosures



| Enclosures                              | Contacts | Contact elements | Connection  |                                | Twist levers                   |                                |
|---|----------|------------------|---|--------------------------------|--------------------------------|--------------------------------|
|   |          |                  |   | ↔ $v_{max.} = 1.5 \text{ m/s}$ | ↔ $v_{max.} = 1.5 \text{ m/s}$ | ↔ $v_{max.} = 1.5 \text{ m/s}$ |
| 31 mm wide,<br>according to<br>EN 50047 | 2 NC     | Slow action      | M12 plug,<br>4-pole;<br>channel 1 on<br>NC contact,<br>channel 2 on | Basic switches                 | 3SF1 234-1KC05-1BA1            | 3SF1 234-1KC05-1BA1            |
|   |          |                  | NC contact  | + Actuator heads               | 3SE5 000-0AK00                 | 3SE5 000-0AK00                 |
|   | 2 NC     | Snap action      | M12 plug,<br>4-pole;<br>channel 1 on<br>NC contact,<br>channel 2 on | + Twist levers                 | 3SE5 000-OAA21                 | 3SE5 000-OAA22                 |
|   |          |                  | NC contact  | Basic switches                 | 3SF1 234-1LC05-1BA1            | 3SF1 234-1LC05-1BA1            |
|   |          | Snap action      | M12 socket<br>right   | + Actuator heads               | 3SE5 000-0AK00                 | 3SE5 000-0AK00                 |
|   |          |                  |   | + Twist levers                 | 3SE5 000-OAA21                 | 3SE5 000-OAA22                 |
| 50 mm wide                              | 2 NC     | Slow action      | M12 plug,<br>4-pole;<br>channel 1 on<br>NC contact,<br>channel 2 on | Basic switches                 | 3SF1 244-1KC05-1BA2            | 3SF1 244-1KC05-1BA2            |
|   |          |                  | NC contact  | + Actuator heads               | 3SE5 000-0AK00                 | 3SE5 000-0AK00                 |
|   | 2 NC     | Snap action      | M12 socket<br>right   | + Twist levers                 | 3SE5 000-OAA21                 | 3SE5 000-OAA22                 |
|   |          |                  |   | Basic switches                 | 3SF1 244-1LC05-1BA2            | 3SF1 244-1LC05-1BA2            |
|   |          | Snap action      |   | + Actuator heads               | 3SE5 000-0AK00                 | 3SE5 000-0AK00                 |
|   |          |                  |   | + Twist levers                 | 3SE5 000-OAA21                 | 3SE5 000-OAA22                 |

## Metal enclosures



| Enclosures                              | Contacts | Contact elements | Connection  |                                | Twist levers                   |                                |
|---|----------|------------------|---|--------------------------------|--------------------------------|--------------------------------|
|   |          |                  |   | ↔ $v_{max.} = 1.5 \text{ m/s}$ | ↔ $v_{max.} = 1.5 \text{ m/s}$ | ↔ $v_{max.} = 1.5 \text{ m/s}$ |
| 31 mm wide,<br>according to<br>EN 50047 | 2 NC     | Slow action      | M12 plug,<br>4-pole;<br>channel 1 on<br>NC contact,<br>channel 2 on | Basic switches                 | 3SF1 214-1KC05-1BA1            | 3SF1 214-1KC05-1BA1            |
|   |          |                  | NC contact  | + Actuator heads               | 3SE5 000-0AK00                 | 3SE5 000-0AK00                 |
|   | 2 NC     | Snap action      | M12 plug,<br>4-pole;<br>channel 1 on<br>NC contact,<br>channel 2 on | + Twist levers                 | 3SE5 000-OAA21                 | 3SE5 000-OAA22                 |
|   |          |                  | NC contact  | Basic switches                 | 3SF1 214-1LC05-1BA1            | 3SF1 214-1LC05-1BA1            |
|   |          | Snap action      | M12 socket<br>right   | + Actuator heads               | 3SE5 000-0AK00                 | 3SE5 000-0AK00                 |
|   |          |                  |   | + Twist levers                 | 3SE5 000-OAA21                 | 3SE5 000-OAA22                 |
| 40 mm wide,<br>according to<br>EN 50041 | 2 NC     | Slow action      | M12 plug,<br>4-pole;<br>channel 1 on<br>NC contact,<br>channel 2 on | Basic switches                 | 3SF1 114-1KA00-1BA1            | 3SF1 114-1KA00-1BA1            |
|   |          |                  | NC contact  | + Actuator heads               | 3SE5 000-OAH00                 | 3SE5 000-OAH00                 |
|   | 2 NC     | Snap action      | M12 plug,<br>4-pole;<br>channel 1 on<br>NC contact,<br>channel 2 on | + Twist levers                 | 3SE5 000-OAA01                 | 3SE5 000-OAA02                 |
|   |          |                  | NC contact  | Basic switches                 | 3SF1 114-1LA00-1BA1            | 3SF1 114-1LA00-1BA1            |
|   |          | Snap action      | M12 socket<br>right   | + Actuator heads               | 3SE5 000-OAH00                 | 3SE5 000-OAH00                 |
|   |          |                  |   | + Twist levers                 | 3SE5 000-OAA01                 | 3SE5 000-OAA02                 |
| 56 mm wide                              | 2 NC     | Slow action      | M12 plug,<br>4-pole;<br>channel 1 on<br>NC contact,<br>channel 2 on | Basic switches                 | 3SF1 124-1KA00-1BA2            | 3SF1 124-1KA00-1BA2            |
|   |          |                  | NC contact  | + Actuator heads               | 3SE5 000-OAH00                 | 3SE5 000-OAH00                 |
|   | 2 NC     | Snap action      | M12 plug,<br>4-pole;<br>channel 1 on<br>NC contact,<br>channel 2 on | + Twist levers                 | 3SE5 000-OAA01                 | 3SE5 000-OAA02                 |
|   |          |                  | NC contact  | Basic switches                 | 3SF1 124-1LA00-1BA2            | 3SF1 124-1LA00-1BA2            |
|   |          | Snap action      | M12 socket<br>right   | + Actuator heads               | 3SE5 000-OAH00                 | 3SE5 000-OAH00                 |
|   |          |                  |   | + Twist levers                 | 3SE5 000-OAA01                 | 3SE5 000-OAA02                 |

For ordering notes see page 9.

**actuators (switching right/left, adjustable)**
**Length-adjustable twist lever**

|                                   |  |
|-----------------------------------|--|
| <b>High-grade steel lever</b>     | Metal lever                                    |
| <b>Plastic roller</b>             | <b>With latching holes,<br/>plastic roller</b> |
| ↔ $v_{\max.} = 1.5 \text{ m/s}$ ↗ | ↔ $v_{\max.} = 1.5 \text{ m/s}$ ↗              |
| 3SF1 234-1KC05-1BA1               | 3SF1 234-1KC05-1BA1                            |
| 3SE5 000-0AK00                    | 3SE5 000-0AK00                                 |
| 3SE5 000-0AA31                    | 3SE5 000-0AA60                                 |
| 3SF1 234-1LC05-1BA1               | 3SF1 234-1LC05-1BA1                            |
| 3SE5 000-0AK00                    | 3SE5 000-0AK00                                 |
| 3SE5 000-0AA31                    | 3SE5 000-0AA60                                 |
| 3SF1 244-1KC05-1BA2               | 3SF1 244-1KC05-1BA2                            |
| 3SE5 000-0AK00                    | 3SE5 000-0AK00                                 |
| 3SE5 000-0AA31                    | 3SE5 000-0AA60                                 |
| 3SF1 244-1LC05-1BA2               | 3SF1 244-1LC05-1BA2                            |
| 3SE5 000-0AK00                    | 3SE5 000-0AK00                                 |
| 3SE5 000-0AA31                    | 3SE5 000-0AA60                                 |

|                     |                     |
|---------------------|---------------------|
| 3SF1 214-1KC05-1BA1 | 3SF1 214-1KC05-1BA1 |
| 3SE5 000-0AK00      | 3SE5 000-0AK00      |
| 3SE5 000-0AA31      | 3SE5 000-0AA60      |
| 3SF1 214-1LC05-1BA1 | 3SF1 214-1LC05-1BA1 |
| 3SE5 000-0AK00      | 3SE5 000-0AK00      |
| 3SE5 000-0AA31      | 3SE5 000-0AA60      |
| 3SF1 114-1KA00-1BA1 | 3SF1 114-1KA00-1BA1 |
| 3SE5 000-0AH00      | 3SE5 000-0AH00      |
| 3SE5 000-0AA11      | 3SE5 000-0AA60      |
| 3SF1 114-1LA00-1BA1 | 3SF1 114-1LA00-1BA1 |
| 3SE5 000-0AH00      | 3SE5 000-0AH00      |
| 3SE5 000-0AA11      | 3SE5 000-0AA60      |
| 3SF1 124-1KA00-1BA2 | 3SF1 124-1KA00-1BA2 |
| 3SE5 000-0AH00      | 3SE5 000-0AH00      |
| 3SE5 000-0AA11      | 3SE5 000-0AA60      |
| 3SF1 124-1LA00-1BA2 | 3SF1 124-1LA00-1BA2 |
| 3SE5 000-0AH00      | 3SE5 000-0AH00      |
| 3SE5 000-0AA11      | 3SE5 000-0AA60      |

| 3SF1 position switches with separate actuator and ASIsafe; complete units                   |   |   |                             |   |
|---|---|---|-----------------------------|---|
| Contacts  | Contact elements  | Versions  | LED display                 | Order No.   |
| <b>Plastic/metal enclosures according to EN 50047 (31 mm), 5 directions of approach</b>     |   |   |                             |   |
| 2 NC<br>   | Slow action    | M12 plug, 4-pole;<br>channel 1 on NC contact,<br>channel 2 on NC contact              | ASI status,<br>F-In1, F-In2 | 3SF1 234-1QV40-1BA1<br>(plastic)<br>3SF1214-1QV40-1BA1<br>(metal) |
| <b>Plastic enclosures (50 mm wide), 5 directions of approach</b>                            |   |   |                             |   |
| 1 NC<br>   | Slow action    | M12 plug, 4-pole, left<br>Channel 1 on NC contact,<br>channel 2 on M12 socket right   | ASI status,<br>F-In1, F-In2 | 3SF1 244-1QV40-1BA2   |
| <b>Metal enclosures according to EN 50041 (40 mm), 5 directions of approach</b>             |   |   |                             |   |
| 2 NC<br>   | Slow action    | M12 plug, 4-pole;<br>channel 1 on NC contact,<br>channel 2 on NC contact              | ASI status,<br>F-In1, F-In2 | 3SF1 114-1QV10-1BA1   |
| <b>Metal enclosures (56 mm wide), 5 directions of approach</b>                              |   |   |                             |   |
| 1 NC<br> | Slow action  | M12 plug, 4-pole, bottom<br>Channel 1 on NC contact,<br>channel 2 on M12 socket right | ASI status,<br>F-In1, F-In2 | 3SF1 124-1QV10-1BA2   |
| Actuators for 3SE5/3SF1 position switches with separate actuator/interlock and ASIsafe      |   |   |                             |   |
|          | Standard actuators  |   |                             | 3SE5 000-0AV01  |
|          | Actuators with vertical fixing  |   |                             | 3SE5 000-0AV02  |
|          | Actuators with transverse fixing  |   |                             | 3SE5 000-0AV03  |
|          | Radius actuators, left  |   |                             | 3SE5 000-0AV04  |
|          | Radius actuators, right   |   |                             | 3SE5 000-0AV06  |
|          | Universal radius actuators  |   |                             | 3SE5 000-0AV05  |
|          | Universal radius actuator, heavy-duty<br>Length 77 mm<br>Length 67 mm                           |   |                             | 3SE5 000-0AV07<br>3SE5 000-0AV07-1AK2                             |

The actuators are not included in the scope of supply of the switch and must be ordered separately.

**3SF1 position switches with interlock and ASIsafe<sup>1)</sup>, complete units**

| Versions  | Release   | Solenoid voltage | LED display                                  | Plastic enclosures,<br>M12 plug,<br>4-pole<br>Order No.           | Metal enclosures,<br>M12 plug,<br>4-pole<br>Order No. |
|---|---|------------------|--|---|---|
| Spring-type interlocking<br>(closed-circuit principle)<br>Channel 1 on NC contact<br>actuator,<br>channel 2 on NC contact<br>solenoid               | Auxiliary release<br>  | 24 V DC          | ASI status,<br>(F-In1, F-In2,<br>ASI, Fault) | 3SF1 324-1SD21-1BA1   | 3SF1 314-1SD11-1BA1                                   |
|   | Auxiliary release with lock<br>  |                  |  | 3SF1 324-1SE21-1BA1   | 3SF1 314-1SE11-1BA1                                   |
|   | Escape release from the front<br>  |                  |  | 3SF1 324-1SF21-1BA1   | 3SF1 314-1SF11-1BA1                                   |
|   | Escape release from the back,<br>auxiliary release from the<br>front<br>        |                  |  | 3SF1 324-1SG21-1BA1   | 3SF1 314-1SG11-1BA1                                   |
|   | Emergency release from the<br>back,<br>auxiliary release from the<br>front<br> |                  |  | 3SF1 324-1SJ21-1BA1   | 3SF1 314-1SJ11-1BA1                                   |
| Spring-type interlocking<br>(closed-circuit principle)<br>Channel 1 and 2 on<br>NC contact of the actuator  | Auxiliary release<br>  | 24 V DC          | ASI status,<br>(F-In1, F-In2,<br>ASI, Fault) | 3SF1 324-1SD21-1BA3   | --  |
| Spring-type interlocking<br>(closed-circuit principle)<br>Channel 1 on 2 NC contacts<br>of the actuator, channel 2 on<br>NC contact of the solenoid | Auxiliary release<br>Escape release from the front<br>Escape release from the back,<br>auxiliary release from the<br>front  | 24 V DC          | ASI status,<br>(F-In1, F-In2,<br>ASI, Fault) | 3SF1 324-1SD21-1BA4<br>3SF1 324-1SF21-1BA4<br>3SF1 324-1SG21-1BA4 | --<br>--<br>--  |
| Solenoid field lock<br>(open-circuit principle)   |    | 24 V DC          | ASI status,<br>(F-In1, F-In2,<br>ASI, Fault) | 3SF1 324-1SB21-1BA1   | 3SF1 314-1SB11-1BA1                                   |
| Channel 1 on NC contact<br>actuator, channel 2 on<br>NC contact solenoid  |   |                  |  | 3SF1 324-1SB21-1BA3   | --  |
| Channel 1 on NC contact<br>actuator, channel 2 on<br>NC contact actuator  |   |                  |  |   |   |

<sup>1)</sup> For actuators, see page 54.

## 3SF1 hinge switches with ASIsafe

|   |  |   |   |   |   |
|---|--|---|---|---|---|
| <b>Contact block<br/>(snap-action<br/>contact)</b>          | <b>Connection</b>  |  | <b>Hollow shaft <math>\varnothing_{\text{internal}} = 8 \text{ mm}</math>, <math>\varnothing_{\text{external}} = 12 \text{ mm}</math></b> |  | <b>Solid shaft <math>\varnothing 10 \text{ mm}</math></b> |
|   |  |   | <b>Operating point 10° ↗</b>  |   | <b>Operating point 10° ↗</b>                              |
| <b>Plastic enclosure, 31 mm wide, according to EN 50047</b> |  |   |   |   |   |
| 2 NC  | M12 plug,<br>4-pole;<br>channel 1 on<br>NC contact,<br>channel 2 on<br>NC contact          | Basic switches<br>+ actuator<br>head  | 3SF1 234-1LC05-1BA1<br>3SE5 000-0AU21   | 3SF1 234-1LC05-1BA1<br>3SE5 000-0AU22   |   |
| <b>Plastic enclosures, 50 mm wide</b>                       |  |   |   |   |   |
| 1 NC  | M12 plug,<br>4-pole;<br>channel 1 on<br>NC contact,<br>channel 2 on<br>M12 socket<br>right | Basic switches<br>+ actuator<br>head  | 3SF1 244-1LC05-1BA2<br>3SE5 000-0AU21   | 3SF1 244-1LC05-1BA2<br>3SE5 000-0AU22   |   |
| <b>Metal enclosure, 31 mm wide, according to EN 50047</b>   |  |   |   |   |   |
| 2 NC  | M12 plug,<br>4-pole;<br>channel 1 on<br>NC contact,<br>channel 2 on<br>NC contact          | Basic switches<br>+ actuator<br>head  | 3SF1 214-1LC05-1BA1<br>3SE5 000-0AU21   | 3SF1 214-1LC05-1BA1<br>3SE5 000-0AU22   |   |
| <b>Metal enclosure, 40 mm wide, according to EN 50041</b>   |  |   |   |   |   |
| 2 NC  | M12 plug,<br>4-pole;<br>channel 1 on<br>NC contact,<br>channel 2 on<br>NC contact          | Basic switches<br>+ actuator<br>head  | 3SF1 114-1LA00-1BA1<br>3SE5 000-0AU21   | 3SF1 114-1LA00-1BA1<br>3SE5 000-0AU22   |   |
| <b>Metal enclosure, 56 mm wide</b>                          |  |   |   |   |   |
| 1 NC  | M12 plug,<br>4-pole;<br>channel 1 on<br>NC contact,<br>channel 2 on<br>M12 socket<br>right | Basic switches<br>+ actuator<br>head  | 3SF1 124-1LA00-1BA2<br>3SE5 000-0AU21   | 3SF1 124-1LA00-1BA2<br>3SE5 000-0AU22   |   |

# ATEX

## SIRUS position switches for explosion protection according to ATEX 95

In many industries the production, processing, transport and storage of combustible substances are accompanied by escaping gases, vapor or spray which find their way into the environment. Other processes result in combustible dust. Together with the oxygen in the air, the result can be an explosive atmosphere (in French: ATmosphère EXplosive) which will explode if ignited.

To guarantee the maximum possible safety in these areas, the legislators of most countries have drawn up requirements in the form of laws, regulations and standards which our switches comply with to the letter.

In explosion-protected areas and misty or dusty environments we recommend the use of our position switches according to ATEX 95. These switches comply with Directive 94/9/EC ||| 2D, ATEX 95 of the European Union and are approved for Zone 21/22.

**3SE5 hinge switches, complete units**

| Contacts<br>(snap-action contact)   | Connection      | Hollow shaft $\varnothing_{\text{internal}} = 8 \text{ mm}$ , $\varnothing_{\text{external}} = 12 \text{ mm}$ | Solid shaft $\varnothing = 10 \text{ mm}$ |
|---|-----------------|---|---|
|   |                 | Operating angle $10^\circ$  | Operating angle $10^\circ$                |
| <b>Metal enclosures according to EN 50047</b> (31 mm wide), mounting on hinges, ATEX zone 21/22 |                 |   |   |
| 1 NO/2 NC<br>   | 1 x (M20 x 1.5) | 3SE5 212-0LU21-1DAO   | 3SE5 212-0LU22-1DAO                       |
| <b>Metal enclosures according to EN 50041</b> (40 mm wide), mounting on hinges, ATEX zone 21/22 |                 |   |   |
| 1 NO/2 NC<br>   | 1 x (M20 x 1.5) | 3SE5 112-0LU21-1DAO   | 3SE5 112-0LU22-1DAO                       |

**3SE5 position switches with separate actuator, complete units**

| Versions   | Contacts<br>(slow-action contact)         | Connection      | LED display | Order No.           |
|--|---|-----------------|-------------|---------------------|
| <b>Metal enclosures, ATEX Zone 21/22, 5 directions of approach</b> |   |                 |             |                     |
|  | 31 mm wide<br>(EN 50047)<br>1 NO/2 NC<br> | 1 x (M20 x 1.5) | None        | 3SE5 212-0QV10-1DAO |
|  | 40 mm wide<br>(EN 50041)<br>1 NO/2 NC<br> | 1 x (M20 x 1.5) | None        | 3SE5 112-0QV10-1DAO |
|  | 56 mm wide<br>(EN 50041)<br>1 NO/2 NC<br> | 3 x (M20 x 1.5) | None        | 3SE5 122-0QV10-1DAO |

Actuators for 3SE5 position switches with separate actuator (see page 43) are not included in the scope of delivery of the switch and must be ordered separately.

# 3SE5 standard position switches acc. to ATEX 95, Zone 21/22 metal enclosure 31 mm and 40 mm

Complete unit and  
Module selection

| Plain plungers   | Rounded plungers                  | Roller plungers                          | Roller levers                          |
|------------------|-----------------------------------|--|--|
|                  |                                   |  |  |
| High-grade steel | High-grade steel, with overtravel | High-grade steel roller, with overtravel | High-grade steel lever, plastic roller |

| Enclosures  | Contacts  | Contact elements | ↓ v <sub>max.</sub> = 1.5 m/s ↗ | ↓ v <sub>max.</sub> = 1.5 m/s ↗ | ↔ v <sub>max.</sub> = 1 m/s ↗ | ↔ v <sub>max.</sub> = 2.5 m/s ↗ |
|---|-----------|------------------|---------------------------------|---------------------------------|-------------------------------|---------------------------------|
| Metal enclosure according to EN 50047 (31 mm wide), 1 x (M20 x 1.5) | 1 NO/1 NC | Slow action      | Complete units                  | --                              | --                            | --                              |
|   |           |                  | Basic switches                  | 3SE5 212-OBC05-1DAO             | 3SE5 212-OBA00-1DAO           | 3SE5 212-OBA00-1DAO             |
|   |           |                  | + Actuator heads                | 3SE5 000-0AB01                  | 3SE5 000-OAC02                | 3SE5 000-OAD02                  |
|   |           |                  | + Twist levers                  | --                              | --                            | --                              |
|   |           | Snap action      | Complete units                  | --                              | --                            | --                              |
|   |           |                  | Basic switches                  | 3SE5 212-OCC05-1DAO             | 3SE5 212-OCA00-1DAO           | 3SE5 212-OCA00-1DAO             |
|   |           |                  | + Actuator heads                | 3SE5 000-0AB01                  | 3SE5 000-OAC02                | 3SE5 000-OAD02                  |
|   | 1 NO/2 NC | Slow action      | + Twist levers                  | --                              | --                            | --                              |
|   |           |                  | Complete units                  | --                              | --                            | --                              |
|   |           |                  | Basic switches                  | 3SE5 212-OKC05-1DAO             | 3SE5 212-OKA00-1DAO           | 3SE5 212-OKA00-1DAO             |
|   |           |                  | + Actuator heads                | 3SE5 000-0AB01                  | 3SE5 000-OAC02                | 3SE5 000-OAD02                  |
|   |           |                  | + Twist levers                  | --                              | --                            | --                              |
| Metal enclosure according to EN 50041 (40 mm wide), 1 x (M20 x 1.5) | 1 NO/1 NC | Slow action      | Snap action                     | --                              | --                            | --                              |
|   |           |                  | Complete units                  | --                              | --                            | --                              |
|   |           |                  | Basic switches                  | --                              | 3SE5 112-OBA00-1DAO           | 3SE5 112-OBA00-1DAO             |
|   |           |                  | + Actuator heads                | --                              | 3SE5 000-OAC02                | 3SE5 000-OAD02                  |
|   |           |                  | + Twist levers                  | --                              | --                            | --                              |
|   |           | Snap action      | Complete units                  | --                              | 3SE5 112-OCC02-1DAO           | 3SE5 112-OCD02-1DAO             |
|   |           |                  | Basic switches                  | --                              | 3SE5 112-OCA00-1DAO           | 3SE5 112-OCA00-1DAO             |
|   |           |                  | + Actuator heads                | --                              | 3SE5 000-OAC02                | 3SE5 000-OAD02                  |
|   | 1 NO/2 NC | Slow action      | + Twist levers                  | --                              | --                            | --                              |
|   |           |                  | Complete units                  | --                              | --                            | --                              |
|   |           |                  | Basic switches                  | --                              | 3SE5 112-OKA00-1DAO           | 3SE5 112-OKA00-1DAO             |
|   |           |                  | + Actuator heads                | --                              | 3SE5 000-OAC02                | 3SE5 000-OAD02                  |
|   |           |                  | + Twist levers                  | --                              | --                            | --                              |
|   |           | Snap action      | Complete units                  | --                              | --                            | --                              |
|   |           |                  | Basic switches                  | --                              | 3SE5 112-OLA00-1DAO           | 3SE5 112-OLA00-1DAO             |
|   |           |                  | + Actuator heads                | --                              | 3SE5 000-OAC02                | 3SE5 000-OAD02                  |
|   |           |                  | + Twist levers                  | --                              | --                            | --                              |

| Angular roller levers   | Spring rod actuators  | Twist lever actuators (switching right and/or left, adjustable)   |   |   |  |
|---|---|---|---|---|--|
|         |  |  +  |   |  +  |  |
| High-grade steel lever,<br>plastic roller<br>$\leftarrow v_{\max.} = 2.5 \text{ m/s}$ ↗ | Plastic plunger,<br>total length 142.5 mm<br>$v_{\max.} = 1 \text{ m/s}$          | EN 50041<br>High-grade steel lever,<br>plastic roller<br>$\leftrightarrow v_{\max.} = 1.5 \text{ m/s}$ ↗  | High-grade steel lever<br>With latching holes,<br>plastic roller<br>$v_{\max.} = 1.5 \text{ m/s}$ ↗ | Rod actuator, 200 mm long<br>Aluminum<br>$\leftrightarrow v_{\max.} = 1.5 \text{ m/s}$  | Plastic<br>$\leftrightarrow v_{\max.} = 1.5 \text{ m/s}$ |
| --  | --  | --  | --  | --  | --   |
| 3SE5 212-0BA00-1DAO   | --  | 3SE5 212-0BA00-1DAO   | 3SE5 212-0BA00-1DAO   | 3SE5 212-0BA00-1DAO   | 3SE5 212-0BA00-1DAO                                      |
| 3SE5 000-0AF03  | --  | 3SE5 000-0AH00  | 3SE5 000-0AH00  | 3SE5 000-0AH00  | 3SE5 000-0AH00   |
| --  | --  | 3SE5 000-0AA11  | 3SE5 000-0AA60  | 3SE5 000-0AA80  | 3SE5 000-0AA82   |
| --  | --  | --  | --  | --  | --   |
| 3SE5 212-0CA00-1DAO   | 3SE5 212-0CA00-1DAO   | 3SE5 212-0CA00-1DAO   | 3SE5 212-0CA00-1DAO   | 3SE5 212-0CA00-1DAO   | 3SE5 212-0CA00-1DAO                                      |
| 3SE5 000-0AF03  | 3SE5 000-0AR01  | 3SE5 000-0AH00  | 3SE5 000-0AH00  | 3SE5 000-0AH00  | 3SE5 000-0AH00   |
| --  | --  | 3SE5 000-0AA11  | 3SE5 000-0AA60  | 3SE5 000-0AA80  | 3SE5 000-0AA82   |
| --  | --  | --  | --  | --  | --   |
| 3SE5 212-0KA00-1DAO   | --  | 3SE5 212-0KA00-1DAO   | 3SE5 212-0KA00-1DAO   | 3SE5 212-0KA00-1DAO   | 3SE5 212-0KA00-1DAO                                      |
| 3SE5 000-0AF03  | --  | 3SE5 000-0AH00  | 3SE5 000-0AH00  | 3SE5 000-0AH00  | 3SE5 000-0AH00   |
| --  | --  | 3SE5 000-0AA11  | 3SE5 000-0AA60  | 3SE5 000-0AA80  | 3SE5 000-0AA82   |
| --  | --  | --  | --  | --  | --   |
| 3SE5 212-0LA00-1DAO   | 3SE5 212-0LA00-1DAO   | 3SE5 212-0LA00-1DAO   | 3SE5 212-0LA00-1DAO   | 3SE5 212-0LA00-1DAO   | 3SE5 212-0LA00-1DAO                                      |
| 3SE5 000-0AF03  | 3SE5 000-0AR01  | 3SE5 000-0AH00  | 3SE5 000-0AH00  | 3SE5 000-0AH00  | 3SE5 000-0AH00   |
| --  | --  | 3SE5 000-0AA11  | 3SE5 000-0AA60  | 3SE5 000-0AA80  | 3SE5 000-0AA82   |
| --  | --  | --  | --  | --  | --   |
| 3SE5 112-0BA00-1DAO   | --  | 3SE5 112-0BA00-1DAO   | 3SE5 112-0BA00-1DAO   | 3SE5 112-0BA00-1DAO   | 3SE5 112-0BA00-1DAO                                      |
| 3SE5 000-0AF03  | --  | 3SE5 000-0AH00  | 3SE5 000-0AH00  | 3SE5 000-0AH00  | 3SE5 000-0AH00   |
| --  | --  | 3SE5 000-0AA11  | 3SE5 000-0AA60  | 3SE5 000-0AA80  | 3SE5 000-0AA82   |
| 3SE5 112-0CF03-1DAO   | 3SE5 112-0CR01-1DAO   | 3SE5 112-0CH11-1DAO   | --  | 3SE5 112-0CH80-1DAO   | 3SE5 112-0CH82-1DAO                                      |
| 3SE5 112-0CA00-1DAO   | 3SE5 112-0CA00-1DAO   | 3SE5 112-0CA00-1DAO   | 3SE5 112-0CA00-1DAO   | 3SE5 112-0CA00-1DAO   | 3SE5 112-0CA00-1DAO                                      |
| 3SE5 000-0AF03  | 3SE5 000-0AR01  | 3SE5 000-0AH00  | 3SE5 000-0AH00  | 3SE5 000-0AH00  | 3SE5 000-0AH00   |
| --  | --  | 3SE5 000-0AA11  | 3SE5 000-0AA60  | 3SE5 000-0AA80  | 3SE5 000-0AA82   |
| --  | --  | --  | --  | --  | --   |
| 3SE5 112-0KA00-1DAO   | --  | 3SE5 112-0KA00-1DAO   | 3SE5 112-0KA00-1DAO   | 3SE5 112-0KA00-1DAO   | 3SE5 112-0KA00-1DAO                                      |
| 3SE5 000-0AF03  | --  | 3SE5 000-0AH00  | 3SE5 000-0AH00  | 3SE5 000-0AH00  | 3SE5 000-0AH00   |
| --  | --  | 3SE5 000-0AA11  | 3SE5 000-0AA60  | 3SE5 000-0AA80  | 3SE5 000-0AA82   |
| --  | --  | --  | --  | --  | --   |
| 3SE5 112-0LA00-1DAO   | 3SE5 112-0LA00-1DAO   | 3SE5 112-0LA00-1DAO   | 3SE5 112-0LA00-1DAO   | 3SE5 112-0LA00-1DAO   | 3SE5 112-0LA00-1DAO                                      |
| 3SE5 000-0AF03  | 3SE5 000-0AR01  | 3SE5 000-0AH00  | 3SE5 000-0AH00  | 3SE5 000-0AH00  | 3SE5 000-0AH00   |
| --  | --  | 3SE5 000-0AA11  | 3SE5 000-0AA60  | 3SE5 000-0AA80  | 3SE5 000-0AA82   |

# 3SE5 standard position switches acc. to ATEX 95, Zone 21/22 metal enclosure 56 mm and 56 mm XL

Complete unit and  
Module selection

| Enclosures  | Contacts    | Contact elements | Plain plungers                   | Rounded plungers                     | Roller plungers                             | Roller levers                             |
|---|-------------|------------------|----------------------------------|--------------------------------------|---|---|
|   |             |                  | High-grade steel                 | High-grade steel,<br>with overtravel | High-grade steel roller,<br>with overtravel | High-grade steel lever,<br>plastic roller |
|   |             |                  | ↓ $v_{max.} = 1.5 \text{ m/s}$ ↗ | ↓ $v_{max.} = 1.5 \text{ m/s}$ ↗     | ↔ $v_{max.} = 1 \text{ m/s}$ ↗              | ↔ $v_{max.} = 2.5 \text{ m/s}$ ↗          |
|    | 1 NO/1 NC   | Slow action      | Complete units                   | --                                   | --  | --  |
|   |             |                  | Basic switches                   | --                                   | 3SE5 122-0BA00-1DAO                         | 3SE5 122-0BA00-1DAO                       |
|   |             |                  | + Actuator heads                 | --                                   | 3SE5 000-0AC02                              | 3SE5 000-0AD02                            |
|   |             |                  | + Twist levers                   | --                                   | --  | 3SE5 000-0AE03                            |
|   | 1 NO/2 NC   | Slow action      | Complete units                   | --                                   | 3SE5 122-0CC02-1DAO                         | 3SE5 122-0CD02-1DAO                       |
|   |             |                  | Basic switches                   | --                                   | 3SE5 122-0CA00-1DAO                         | 3SE5 122-0CA00-1DAO                       |
|   |             |                  | + Actuator heads                 | --                                   | 3SE5 000-0AC02                              | 3SE5 000-0AD02                            |
|   |             |                  | + Twist levers                   | --                                   | --  | 3SE5 000-0AE03                            |
|  | 2 NO + 2 NC | Snap action      | Complete units                   | --                                   | --  | --  |
|   |             |                  | Basic switches                   | 3SE5 162-0CA00-1DAO                  | 3SE5 162-0CA00-1DAO                         | 3SE5 162-0CA00-1DAO                       |
|   |             |                  | + Actuator heads                 | 3SE5 000-0AB01                       | 3SE5 000-0AC02                              | 3SE5 000-0AD02                            |
|   |             |                  | + Twist levers                   | --                                   | --  | 3SE5 000-0AE03                            |
|   | 2 NO + 4 NC | Slow action      | Complete units                   | --                                   | --  | --  |
|   |             |                  | Basic switches                   | 3SE5 162-0BA00-1DAO                  | 3SE5 162-0BA00-1DAO                         | 3SE5 162-0BA00-1DAO                       |
|   |             |                  | + Actuator heads                 | 3SE5 000-0AB01                       | 3SE5 000-0AC02                              | 3SE5 000-0AD02                            |
|   |             |                  | + Twist levers                   | --                                   | --  | 3SE5 000-0AE03                            |

| Angular roller levers   | Spring rod actuators  | Twist lever actuators (switching right and/or left, adjustable)   |   |   |                     |
|---|---|---|---|---|---------------------|
|                   |  |  +  |   |  +  |                     |
| High-grade steel lever,<br>plastic roller<br>$\leftarrow v_{\max.} = 2.5 \text{ m/s} \rightarrow$ | Plastic plunger,<br>total length 142.5 mm<br>$v_{\max.} = 1 \text{ m/s}$          | EN 50041<br>High-grade steel lever,<br>plastic roller<br>$\leftrightarrow v_{\max.} = 1.5 \text{ m/s} \rightarrow$  | High-grade steel lever<br>With latching holes,<br>plastic roller<br>$v_{\max.} = 1.5 \text{ m/s} \rightarrow$ | Rod actuator, 200 mm long   |                     |
|   |   |   |   | Aluminum  | Plastic             |
| --  | --  | --  | --  | --  | --                  |
| 3SE5 122-0BA00-1DA0   | --  | 3SE5 122-0BA00-1DA0   | 3SE5 122-0BA00-1DA0   | 3SE5 122-0BA00-1DA0   | 3SE5 122-0BA00-1DA0 |
| 3SE5 000-OAF03  | --  | 3SE5 000-OAH00  | 3SE5 000-OAH00  | 3SE5 000-OAH00  | 3SE5 000-OAH00      |
| --  | --  | 3SE5 000-OAA11  | 3SE5 000-OAA60  | 3SE5 000-OAA80  | 3SE5 000-OAA82      |
| 3SE5 122-0CF03-1DA0   | 3SE5 122-0CR01-1DA0   | 3SE5 122-0CH11-1DA0   | --  | --  | --                  |
| 3SE5 122-0CA00-1DA0   | 3SE5 122-0CA00-1DA0   | 3SE5 122-0CA00-1DA0   | 3SE5 122-0CA00-1DA0   | 3SE5 122-0CA00-1DA0   | 3SE5 122-0CA00-1DA0 |
| 3SE5 000-OAF03  | 3SE5 000-OAR01  | 3SE5 000-OAH00  | 3SE5 000-OAH00  | 3SE5 000-OAH00  | 3SE5 000-OAH00      |
| --  | --  | 3SE5 000-OAA11  | 3SE5 000-OAA60  | 3SE5 000-OAA80  | 3SE5 000-OAA82      |
| --  | --  | --  | --  | --  | --                  |
| 3SE5 122-0KA00-1DA0   | --  | 3SE5 122-0KA00-1DA0   | 3SE5 122-0KA00-1DA0   | 3SE5 122-0KA00-1DA0   | 3SE5 122-0KA00-1DA0 |
| 3SE5 000-OAF03  | --  | 3SE5 000-OAH00  | 3SE5 000-OAH00  | 3SE5 000-OAH00  | 3SE5 000-OAH00      |
| --  | --  | 3SE5 000-OAA11  | 3SE5 000-OAA60  | 3SE5 000-OAA80  | 3SE5 000-OAA82      |
| --  | --  | --  | --  | --  | --                  |
| 3SE5 122-0LA00-1DA0   | 3SE5 122-0LA00-1DA0   | 3SE5 122-0LA00-1DA0   | 3SE5 122-0LA00-1DA0   | 3SE5 122-0LA00-1DA0   | 3SE5 122-0LA00-1DA0 |
| 3SE5 000-OAF03  | 3SE5 000-OAR01  | 3SE5 000-OAH00  | 3SE5 000-OAH00  | 3SE5 000-OAH00  | 3SE5 000-OAH00      |
| --  | --  | 3SE5 000-OAA11  | 3SE5 000-OAA60  | 3SE5 000-OAA80  | 3SE5 000-OAA82      |
| --  | --  | --  | --  | --  | --                  |
| 3SE5 162-0CA00-1DA0   | 3SE5 162-0CA00-1DA0   | 3SE5 162-0CA00-1DA0   | 3SE5 162-0CA00-1DA0   | 3SE5 162-0CA00-1DA0   | 3SE5 162-0CA00-1DA0 |
| 3SE5 000-OAF03  | --  | 3SE5 000-OAH00  | 3SE5 000-OAH00  | 3SE5 000-OAH00  | 3SE5 000-OAH00      |
| --  | --  | 3SE5 000-OAA11  | 3SE5 000-OAA60  | 3SE5 000-OAA80  | 3SE5 000-OAA82      |
| --  | --  | --  | --  | --  | --                  |
| 3SE5 162-0BA00-1DA0   | 3SE5 162-0BA00-1DA0   | 3SE5 162-0BA00-1DA0   | 3SE5 162-0BA00-1DA0   | 3SE5 162-0BA00-1DA0   | 3SE5 162-0BA00-1DA0 |
| 3SE5 000-OAF03  | --  | 3SE5 000-OAH00  | 3SE5 000-OAH00  | 3SE5 000-OAH00  | 3SE5 000-OAH00      |
| --  | --  | 3SE5 000-OAA11  | 3SE5 000-OAA60  | 3SE5 000-OAA80  | 3SE5 000-OAA82      |
| --  | --  | --  | --  | --  | --                  |
| 3SE5 162-0DA00-1DA0   | 3SE5 162-0DA00-1DA0   | 3SE5 162-0DA00-1DA0   | 3SE5 162-0DA00-1DA0   | 3SE5 162-0DA00-1DA0   | 3SE5 162-0DA00-1DA0 |
| 3SE5 000-OAF03  | --  | 3SE5 000-OAH00  | 3SE5 000-OAH00  | 3SE5 000-OAH00  | 3SE5 000-OAH00      |
| --  | --  | 3SE5 000-OAA11  | 3SE5 000-OAA60  | 3SE5 000-OAA80  | 3SE5 000-OAA82      |

# Online configurator

## With the online configurator to the perfect switch

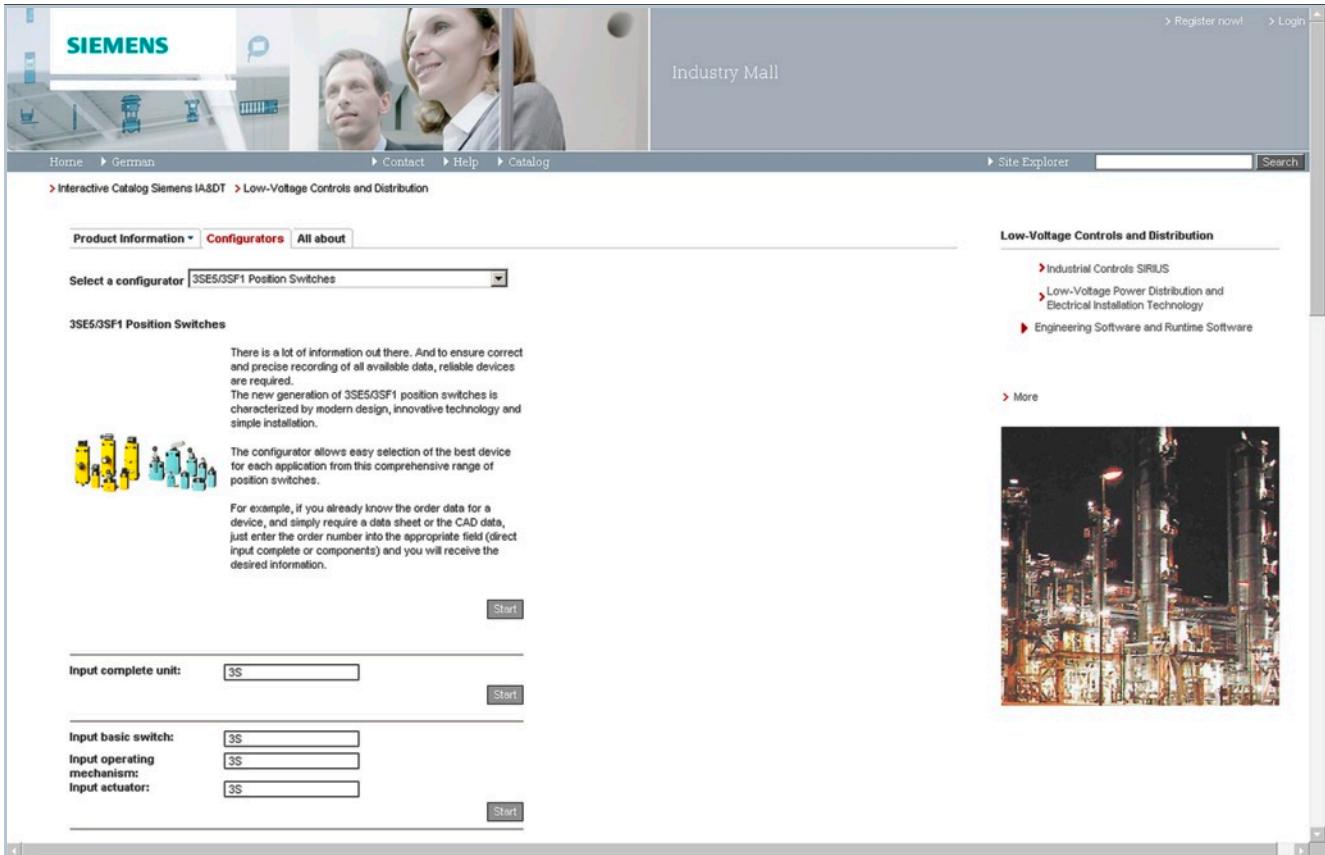
The modular design of our switch range provides you with huge scope for configuring your very own individual switches. For this reason we supplement our catalog and this brochure-type selection aid with an intelligent and user-friendly electronic tool - our online configurator:

[www.siemens.com/industrial-controls/configurators](http://www.siemens.com/industrial-controls/configurators)

### Easy, fast and user-friendly

Configuring switches is far easier with the online configurator. It helps you to choose from our comprehensive range of switches the one which is best suited for your particular application.

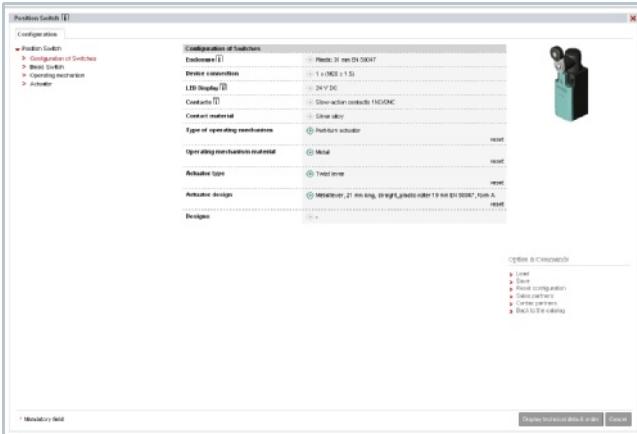
Configuration is easy and quick. During the configuration process you are provided with all the data you need to select the right switch.



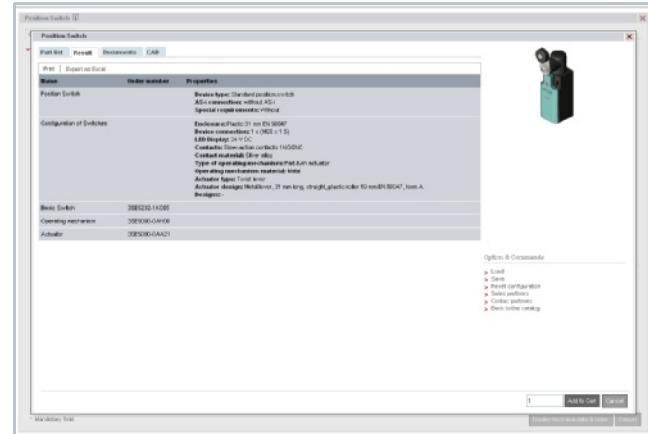
The screenshot shows the Siemens Industry Mall website. At the top, there's a navigation bar with links for Home, German, Contact, Help, Catalog, Register now!, and Login. Below the navigation is a banner featuring two people looking at something together. The main content area has a heading "Industry Mall". On the left, there's a sidebar with "Product Information" dropdowns for "Configurators" (selected) and "All about". A dropdown menu shows "Select a configurator" set to "3SE5/3SF1 Position Switches". Below this is a section titled "3SE5/3SF1 Position Switches" with descriptive text and a small image of several cylindrical switches. Further down, there's a section with input fields for "Input complete unit" (containing "3S") and "Input basic switch" (containing "3S"), along with "Start" buttons. To the right, there's a sidebar for "Low-Voltage Controls and Distribution" with links for Industrial Controls SIRIUS, Low-Voltage Power Distribution and Electrical Installation Technology, and Engineering Software and Runtime Software. At the bottom right is a photograph of an industrial facility at night.

[www.siemens.com/industrial-controls/configurators](http://www.siemens.com/industrial-controls/configurators)

## Product configuration



## Ordering data



Having finished the configuration you can order the switch directly in the catalog and order system.

The online configurator helps you not only to select the right switch but also to obtain related product information.

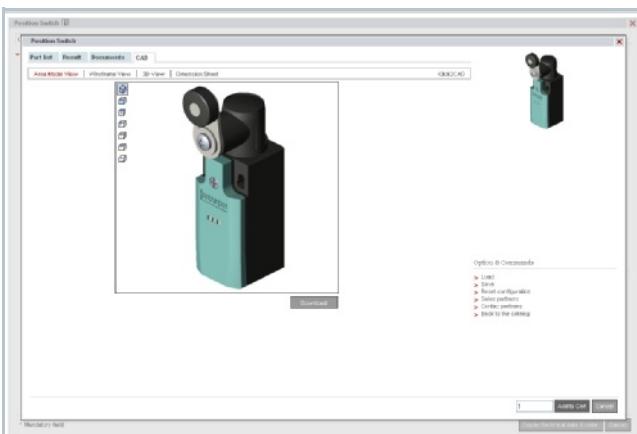
The following data are available for downloading:

- Product data sheet
- Dimensional drawings
- Travel diagrams
- CAD data in 2D and 3D model images (also for systems)
- Ordering data
- Product photos

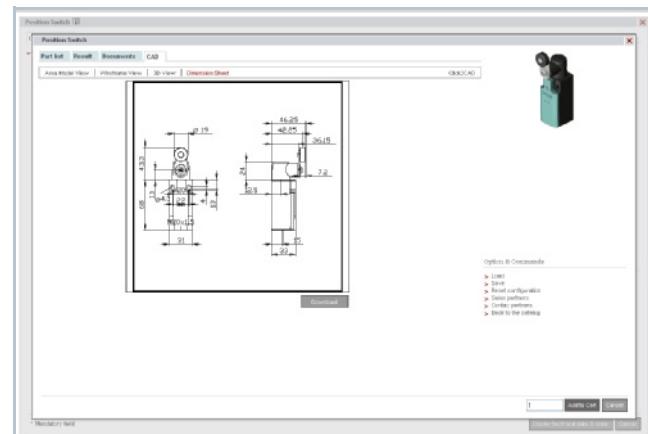
## Product data sheet



## CAD data



## Dimension sheet



## More information:

### Technical Assistance

Competent technical advice on Industrial Controls

Phone: +49 (911) 895-5900

Fax: +49 (911) 895-5907

E-mail: [technical-assistance@siemens.com](mailto:technical-assistance@siemens.com)

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