

Position switch Plastic enclosure, 50 mm according to EN 50047  
Device connection 2 x (M20 x 1.5) 1 NO/2 NC quick action contacts  
LED, yellow/green, 24 V DC Teflon plunger



|                                              |                               |
|----------------------------------------------|-------------------------------|
| Product brand name                           | SIRIUS                        |
| Product designation                          | Mechanical position switches  |
| Product type designation                     | 3SE5                          |
| Manufacturer's article number                |                               |
| • of the supplied basic switch               | <a href="#">3SE5242-1LC05</a> |
| • of the supplied switching contacts         | <a href="#">3SE5000-0LA00</a> |
| • of the supplied empty enclosure with cover | <a href="#">3SE5242-0AC05</a> |
| Suitability for use safety switch            | Yes                           |

### General technical data

|                                      |              |
|--------------------------------------|--------------|
| Product function                     |              |
| • positive opening                   | Yes          |
| Insulation voltage                   |              |
| • rated value                        | 400 V        |
| Degree of pollution                  | class 3      |
| Surge voltage resistance rated value | 0.8 kV       |
| Protection class IP                  | IP66/IP67    |
| Shock resistance                     |              |
| • acc. to IEC 60068-2-27             | 30 g / 11 ms |
| Vibration resistance                 |              |

|                                                                                                                          |                                                      |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| • acc. to IEC 60068-2-6                                                                                                  | 0.35 mm/5g                                           |
| <b>Mechanical service life (switching cycles)</b>                                                                        |                                                      |
| • typical                                                                                                                | 15 000 000                                           |
| <b>Electrical endurance (switching cycles)</b>                                                                           |                                                      |
| • at AC-15 at 230 V typical                                                                                              | 100 000                                              |
| <b>Electrical endurance (switching cycles) with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 typical</b> | 10 000 000                                           |
| <b>Electrical operating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026</b>         | 6 000                                                |
| <b>Thermal current</b>                                                                                                   | 10 A                                                 |
| <b>Material of the enclosure of the switch head</b>                                                                      | plastic                                              |
| <b>Continuous current of the C characteristic MCB</b>                                                                    | 1 A; for a short-circuit current smaller than 400 A  |
| <b>Continuous current of the quick DIAZED fuse link</b>                                                                  | 10 A; for a short-circuit current smaller than 400 A |
| <b>Continuous current of the DIAZED fuse link gG</b>                                                                     | 6 A                                                  |
| <b>Active principle</b>                                                                                                  | mechanical                                           |
| <b>Repeat accuracy</b>                                                                                                   | 0.05 mm                                              |
| <b>Minimum actuating force in activation direction</b>                                                                   | 20 N                                                 |
| <b>Length of the sensor</b>                                                                                              | 60.7 mm                                              |
| <b>Width of the sensor</b>                                                                                               | 50 mm                                                |
| <b>Design of the switching contact</b>                                                                                   | mechanical                                           |
| <b>Operating frequency rated value</b>                                                                                   | 50 ... 60 Hz                                         |
| <b>Number of NC contacts for auxiliary contacts</b>                                                                      | 2                                                    |
| <b>Number of NO contacts for auxiliary contacts</b>                                                                      | 1                                                    |
| <b>Number of CO contacts for auxiliary contacts</b>                                                                      | 1                                                    |
| <b>Operating current at DC-13</b>                                                                                        |                                                      |
| • at 24 V rated value                                                                                                    | 3 A                                                  |
| <b>Design of the interface for safety-related communication</b>                                                          | without                                              |

#### Enclosure

|                                               |             |
|-----------------------------------------------|-------------|
| <b>Design of the housing</b>                  | block, wide |
| <b>Material of the enclosure</b>              | plastic     |
| <b>Coating of the enclosure</b>               | Other types |
| <b>Design of the housing acc. to standard</b> | No          |

#### Drive Head

|                                                    |                                 |
|----------------------------------------------------|---------------------------------|
| <b>Design of the operating mechanism</b>           | Rounded plunger, Teflon plunger |
| <b>Standard-compliant actuator head</b>            | EN 50047, design B              |
| <b>Shape of the switch head</b>                    | rounded                         |
| <b>Design of the switching function</b>            | positive opening                |
| <b>Circuit principle</b>                           | snap-action contacts            |
| <b>Number of switching contacts safety-related</b> | 2                               |

#### Connections/Terminals

|                                              |                                                                       |
|----------------------------------------------|-----------------------------------------------------------------------|
| Type of electrical connection                | screw-type terminals                                                  |
| Type of connectable conductor cross-sections |                                                                       |
| • solid                                      | 1x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.5 ... 0.75 mm <sup>2</sup> ) |
| • finely stranded with core end processing   | 1x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.5 ... 0.75 mm <sup>2</sup> ) |
| • at AWG conductors solid                    | 1x (20 ... 16), 2x (20 ... 18)                                        |
| • at AWG conductors stranded                 | 1x (20 ... 16), 2x (20 ... 18)                                        |
| Cable entry type                             | 2 x (M20 x 1.5)                                                       |

#### Communication/ Protocol

|                         |         |
|-------------------------|---------|
| Design of the interface | without |
|-------------------------|---------|

#### Ambient conditions

|                                        |                |
|----------------------------------------|----------------|
| Ambient temperature                    |                |
| • during operation                     | -25 ... +60 °C |
| • during storage                       | -40 ... +90 °C |
| Explosion protection category for dust | none           |

#### Supply voltage

|                                       |      |
|---------------------------------------|------|
| Type of voltage of the supply voltage |      |
| • of the optional LED indicator       | DC   |
| Supply voltage                        |      |
| • of LED                              | 24 V |

#### Installation/ mounting/ dimensions

|                   |              |
|-------------------|--------------|
| Mounting position | any          |
| Mounting type     | screw fixing |

#### Certificates/approvals

| General Product Approval                                                                   | Functional Safety/Safety of Machinery                                                      | Declaration of Conformity                                                                         |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| <br>CCC | <br>UL  | <br>EG-Konf. |
| <br>CSA | <br>EAC | <a href="#">Type Examination Certificate</a>                                                      |

|                                          |                              |
|------------------------------------------|------------------------------|
| Test Certificates                        | other                        |
| <a href="#">Special Test Certificate</a> | <a href="#">Confirmation</a> |

#### Further information

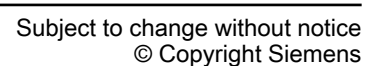
<http://www.siemens.com/industrial-controls/catalogs>

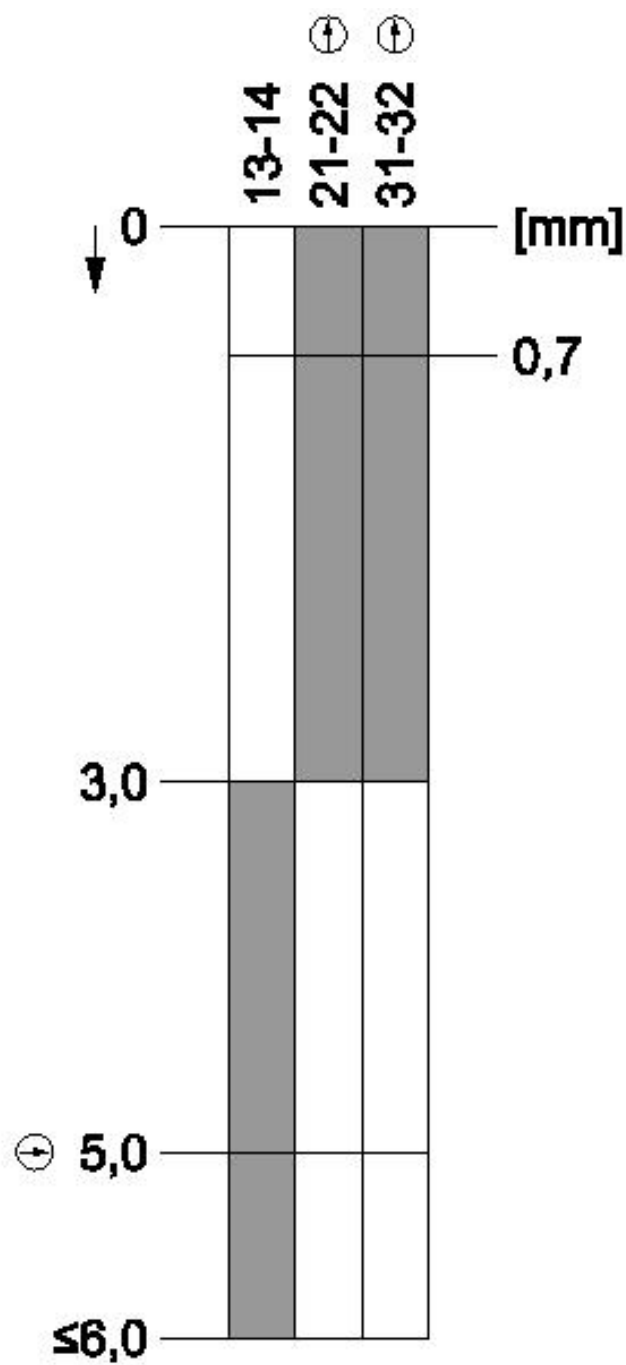
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SE5242-1LC05>

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5242-1LC05>

<https://support.industry.siemens.com/cs/ww/en/ps/3SE5242-1LC05>

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SE5242-1LC05&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5242-1LC05&lang=en)





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