



Position switch Metal enclosure according to EN 50047, 31 mm Device connection 1 x (M20 x 1.5) 1 NO/2 NC quick action contacts with 2 LEDs yellow/green, 230 V AC

|                                                                                                                          |                                                      |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| <b>product brand name</b>                                                                                                | SIRIUS                                               |
| <b>product designation</b>                                                                                               | Mechanical position switches                         |
| <b>product type designation</b>                                                                                          | 3SE5                                                 |
| <b>manufacturer's article number</b>                                                                                     |                                                      |
| • of the supplied basic switch                                                                                           | 3SE5212-3LC05                                        |
| • of the supplied switching contacts                                                                                     | 3SE5000-0LA00                                        |
| • of the supplied empty enclosure with cover                                                                             | 3SE5212-0AC05                                        |
| suitability for use safety switch                                                                                        | Yes                                                  |
| <b>General technical data</b>                                                                                            |                                                      |
| product function positive opening                                                                                        | Yes                                                  |
| insulation voltage rated value                                                                                           | 400 V                                                |
| degree of pollution                                                                                                      | class 3                                              |
| surge voltage resistance rated value                                                                                     | 4 kV                                                 |
| protection class IP                                                                                                      | IP66/IP67                                            |
| <b>shock resistance</b>                                                                                                  |                                                      |
| • acc. to IEC 60068-2-27                                                                                                 | 30g / 11 ms                                          |
| <b>vibration resistance</b>                                                                                              |                                                      |
| • acc. to IEC 60068-2-6                                                                                                  | 0.35 mm/5g                                           |
| mechanical service life (switching cycles) typical                                                                       | 15 000 000                                           |
| electrical endurance (switching cycles) 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                                                |
| thermal current                                                                                                          | 10 A                                                 |
| material of the enclosure of the switch head                                                                             | metal                                                |
| reference code acc. to IEC 81346-2                                                                                       | B                                                    |
| continuous current of the C characteristic MCB                                                                           | 1 A; for a short-circuit current smaller than 400 A  |
| continuous current of the quick DIAZED fuse link                                                                         | 10 A; for a short-circuit current smaller than 400 A |
| continuous current of the DIAZED fuse link gG                                                                            | 6 A                                                  |
| active principle                                                                                                         | mechanical                                           |
| repeat accuracy                                                                                                          | 0.05 mm                                              |
| minimum actuating force in directions of actuation                                                                       | 20 N                                                 |
| length of the sensor                                                                                                     | 75.7 mm                                              |
| width of the sensor                                                                                                      | 31 mm                                                |
| design of the switching contact                                                                                          | mechanical                                           |

|                                                                   |                                                                       |
|-------------------------------------------------------------------|-----------------------------------------------------------------------|
| operating frequency rated value                                   | 50 ... 60 Hz                                                          |
| number of NC contacts for auxiliary contacts                      | 2                                                                     |
| number of NO contacts for auxiliary contacts                      | 1                                                                     |
| operational current at AC-15                                      |                                                                       |
| • at 230 V rated value                                            | 6 A                                                                   |
| design of the interface for safety-related communication          | without                                                               |
| <b>Enclosure</b>                                                  |                                                                       |
| design of the housing                                             | block, narrow                                                         |
| material of the enclosure                                         | metal                                                                 |
| coating of the enclosure                                          | cathodic immersion coating                                            |
| design of the housing acc. to standard                            | Yes                                                                   |
| <b>Drive Head</b>                                                 |                                                                       |
| design of the actuating element                                   | Rounded plunger, Teflon plunger                                       |
| standard-compliant actuator head                                  | EN 50047, design B                                                    |
| shape of the switch head                                          | rounded                                                               |
| design of the switching function                                  | positive opening                                                      |
| circuit principle                                                 | snap-action contacts                                                  |
| number of switching contacts safety-related                       | 2                                                                     |
| <b>Connections/ Terminals</b>                                     |                                                                       |
| 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 cables solid                                             | 1x (20 ... 16), 2x (20 ... 18)                                        |
| • at AWG cables stranded                                          | 1x (20 ... 16), 2x (20 ... 18)                                        |
| cable entry type                                                  | 1x (M20 x 1.5)                                                        |
| <b>Communication/ Protocol</b>                                    |                                                                       |
| design of the interface                                           | without                                                               |
| <b>Ambient conditions</b>                                         |                                                                       |
| explosion protection category for dust                            | none                                                                  |
| <b>Supply voltage</b>                                             |                                                                       |
| type of voltage of the supply voltage of the optional LED display | AC                                                                    |
| supply voltage                                                    |                                                                       |
| • of LED                                                          | 230 V                                                                 |
| <b>Installation/ mounting/ dimensions</b>                         |                                                                       |
| mounting position                                                 | any                                                                   |
| fastening method                                                  | screw fixing                                                          |
| <b>Certificates/ approvals</b>                                    |                                                                       |
| General Product Approval                                          |                                                                       |
| Functional Safety/Safety of Machinery                             |                                                                       |



[Type Examination Certificate](#)

|                           |                   |       |
|---------------------------|-------------------|-------|
| Declaration of Conformity | Test Certificates | other |
|---------------------------|-------------------|-------|



[Miscellaneous](#)

[Type Test Certificates/Test Report](#)

[Confirmation](#)

|                     |
|---------------------|
| Further information |
|---------------------|

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SE5212-3LC05>

Cax online generator

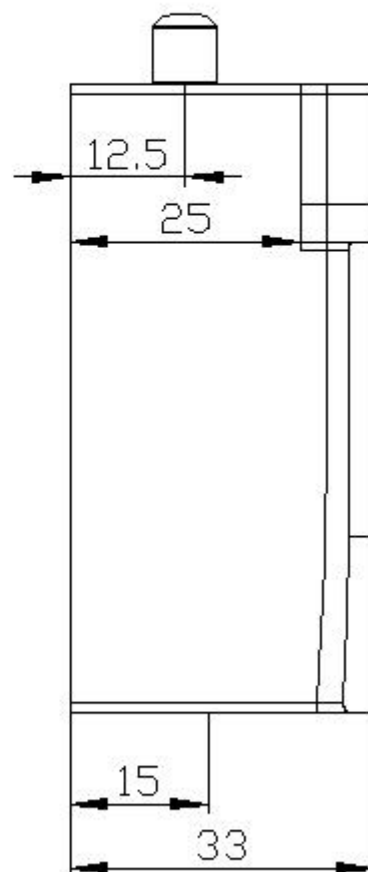
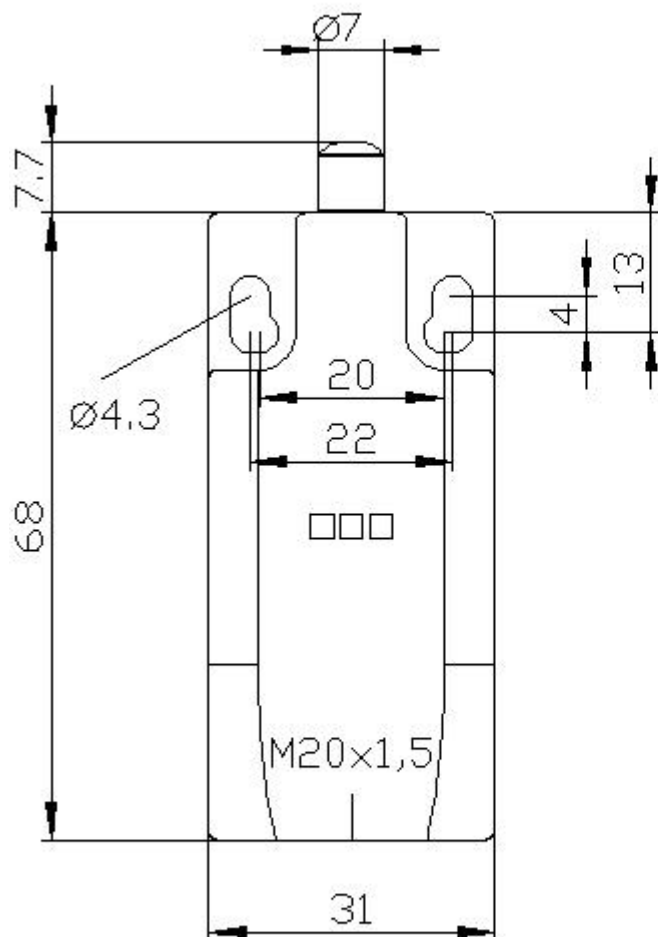
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5212-3LC05>

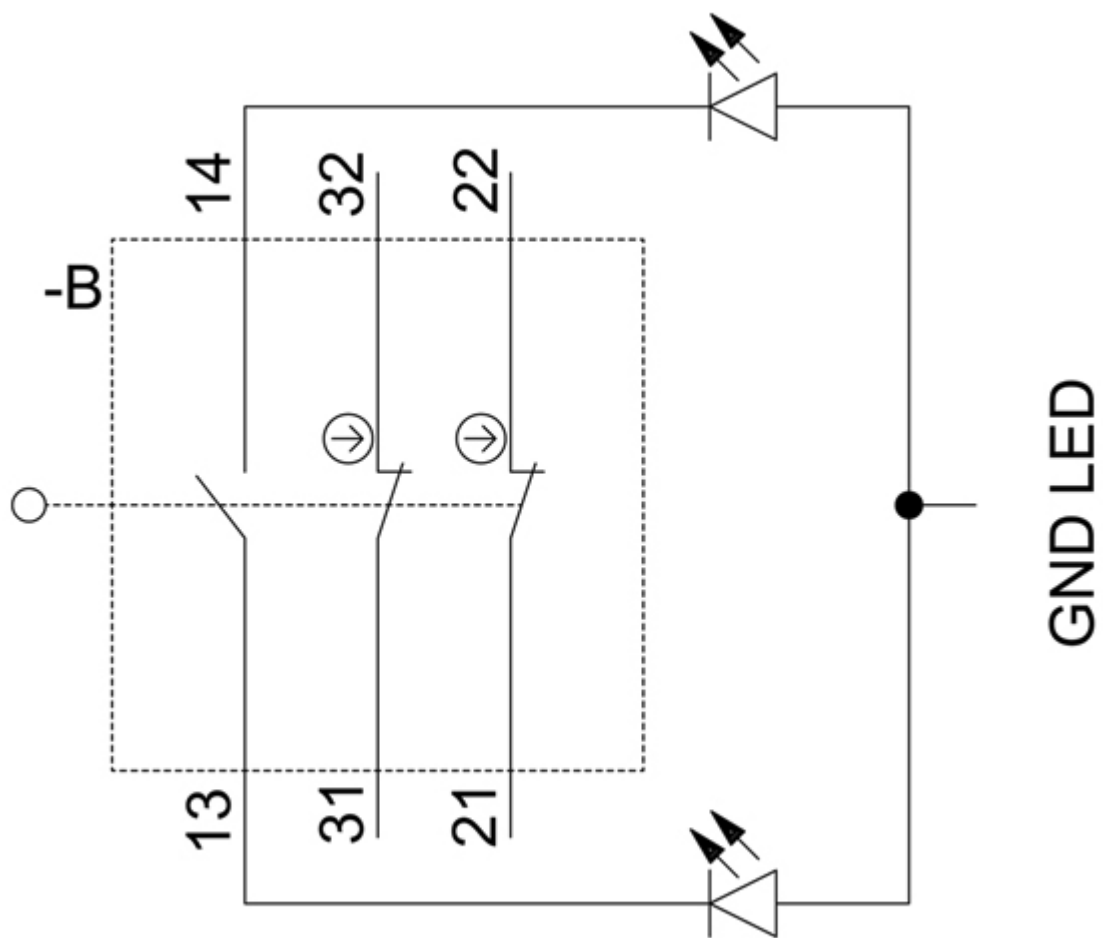
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

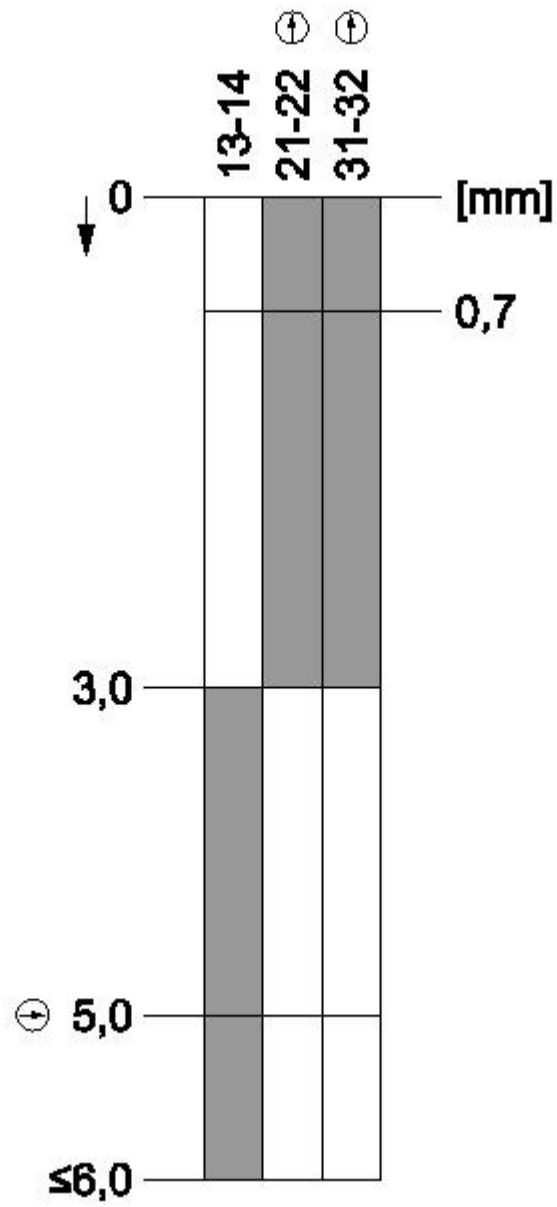
<https://support.industry.siemens.com/cs/ww/en/ps/3SE5212-3LC05>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SE5212-3LC05&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5212-3LC05&lang=en)







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