



Safety position switch with separate actuator 5 directions of approaches Plastic enclosure, EN 50047 ASIsafe integrated AS-i status: 1:F-IN1, 2: F-IN2 3:AS-i/FAULT Slow-action contacts 2 NC with M12 connector 4-pole Channel 1 to NC, Channel 2 to NC

|                                                    |                                                                                                                                                                                                                                        |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| product brand name                                 | SIRIUS                                                                                                                                                                                                                                 |
| product designation                                | Mechanical safety switches                                                                                                                                                                                                             |
| product type designation                           | 3SF12                                                                                                                                                                                                                                  |
| manufacturer's article number                      | 3SE5000-0AV01 standard actuator, 3SE5000-0AV02 actuator with vertical fixing, 3SE5000-0AV03 actuator with transverse fixing, 3SE5000-0AV04 radius actuator left, 3SE5000-0AV05 universal actuator, 3SE5000-0AV06 radius actuator right |
| • of the optional actuators                        |                                                                                                                                                                                                                                        |
| suitability for use safety switch                  | Yes                                                                                                                                                                                                                                    |
| <b>General technical data</b>                      |                                                                                                                                                                                                                                        |
| product function positive opening                  | Yes                                                                                                                                                                                                                                    |
| insulation voltage rated value                     | 30 V                                                                                                                                                                                                                                   |
| degree of pollution                                | class 3                                                                                                                                                                                                                                |
| surge voltage resistance rated value               | 0.8 kV                                                                                                                                                                                                                                 |
| protection class IP                                | IP65                                                                                                                                                                                                                                   |
| shock resistance according to IEC 60068-2-27       | 30g / 11 ms                                                                                                                                                                                                                            |
| mechanical service life (operating cycles) typical | 1 000 000                                                                                                                                                                                                                              |
| material of the enclosure of the switch head       | plastic enclosure                                                                                                                                                                                                                      |
| reference code according to IEC 81346-2            | B                                                                                                                                                                                                                                      |
| active principle                                   | mechanical                                                                                                                                                                                                                             |
| repeat accuracy                                    | 0.1 mm                                                                                                                                                                                                                                 |
| Substance Prohibitance (Date)                      | 03/01/2017                                                                                                                                                                                                                             |
| SVHC substance name                                | Lead - 7439-92-1<br>Lead monoxide (lead oxide) - 1317-36-8<br>Imidazolidine-2-thione (2-imidazoline-2-thiol) - 96-45-7<br>Diboron trioxide - 1303-86-2                                                                                 |
| minimum actuating force in directions of actuation | 20 N                                                                                                                                                                                                                                   |
| length of the sensor                               | 118 mm                                                                                                                                                                                                                                 |
| width of the sensor                                | 31 mm                                                                                                                                                                                                                                  |
| <b>Ambient conditions</b>                          |                                                                                                                                                                                                                                        |
| ambient temperature                                | -25 ... +60 °C<br>-40 ... +80 °C                                                                                                                                                                                                       |
| • during operation                                 |                                                                                                                                                                                                                                        |
| • during storage                                   |                                                                                                                                                                                                                                        |
| design of the switching contact                    | mechanical                                                                                                                                                                                                                             |
| number of NC contacts for auxiliary contacts       | 2                                                                                                                                                                                                                                      |
| number of NO contacts for auxiliary contacts       | 0                                                                                                                                                                                                                                      |
| <b>Enclosure</b>                                   |                                                                                                                                                                                                                                        |
| design of the housing                              | block, narrow                                                                                                                                                                                                                          |
| material of the enclosure                          | plastic                                                                                                                                                                                                                                |
| design of the housing according to standard        | Yes                                                                                                                                                                                                                                    |
| <b>Drive Head</b>                                  |                                                                                                                                                                                                                                        |
| design of the actuating element                    | without                                                                                                                                                                                                                                |

|                                                                              |                                                                                          |       |
|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------|
| design of the switching function                                             | positive opening                                                                         |       |
| circuit principle                                                            | slow-action contacts                                                                     |       |
| number of switching contacts safety-related                                  | 2                                                                                        |       |
| design of plug-in connection                                                 | M12 plug, 4-pole: Pin 1 = ASI+ , Pin 2 = not assigned, Pin 3= ASI-, Pin 4 = not assigned |       |
| Installation/ mounting/ dimensions                                           |                                                                                          |       |
| mounting position                                                            | any                                                                                      |       |
| fastening method                                                             | screw fixing                                                                             |       |
| Connections/ Terminals                                                       |                                                                                          |       |
| type of electrical connection                                                | M12 plug, fixed, 4-pole                                                                  |       |
| Supply voltage                                                               |                                                                                          |       |
| type of voltage of the supply voltage of the optional LED display            | DC                                                                                       |       |
| supply voltage of LED                                                        | 24 V                                                                                     |       |
| •                                                                            |                                                                                          |       |
| design of the interface for safety-related communication                     | ASIsafe via M12 plug                                                                     |       |
| Safety related data                                                          |                                                                                          |       |
| proportion of dangerous failures with high demand rate according to SN 31920 | 20 %                                                                                     |       |
| B10 value with high demand rate according to SN 31920                        | 1 000 000                                                                                |       |
| Approvals Certificates                                                       |                                                                                          |       |
| General Product Approval                                                     | Test Certificates                                                                        | other |



[Type Test Certificates/Test Report](#)

[Confirmation](#)

#### Environment

[Environmental Confirmations](#)

#### Further information

##### Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

##### 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=3SF1234-1QV40-1BA1>

##### Cax online generator

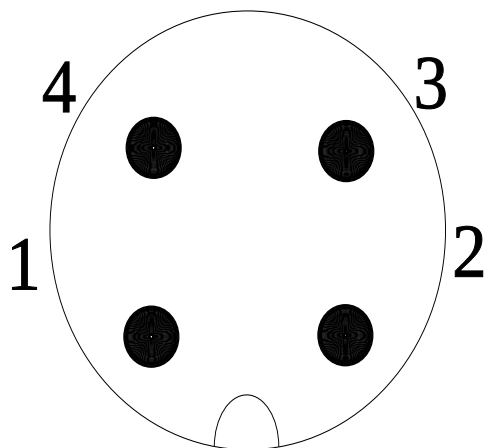
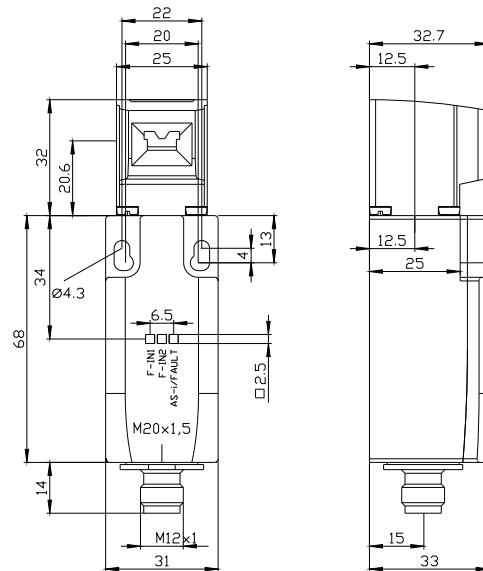
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##### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3SF1234-1QV40-1BA1>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SF1234-1QV40-1BA1&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SF1234-1QV40-1BA1&lang=en)



|   |   |       |
|---|---|-------|
| 1 | → | ASI + |
| 2 | → | n. c. |
| 3 | → | ASI - |
| 4 | → | n. c. |

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