



Basic switch Rounded plunger Metal enclosure, according to EN 50047 ASIsafe integrated AS-i status: 1:F-IN1, 2: F-IN2 3:AS-i/FAULT Snap-action contacts 2 NC/1 NO 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                      |                                                                                                                                                                                                                                                                                                                                                             |
| • of the supplied basic switch                     | <a href="#">3SF1214-1LC05-1BA1</a>                                                                                                                                                                                                                                                                                                                          |
| <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                                                                                                                                                                                                                                                                                                                                                      |
| shock resistance according to IEC 60068-2-27       | 30 g / 11 ms                                                                                                                                                                                                                                                                                                                                                |
| vibration resistance according to IEC 60068-2-6    | 0.35 mm/5 g                                                                                                                                                                                                                                                                                                                                                 |
| mechanical service life (operating cycles) typical | 15 000 000                                                                                                                                                                                                                                                                                                                                                  |
| reference code according to IEC 81346-2            | B                                                                                                                                                                                                                                                                                                                                                           |
| active principle                                   | mechanical                                                                                                                                                                                                                                                                                                                                                  |
| repeat accuracy                                    | 0.1 mm                                                                                                                                                                                                                                                                                                                                                      |
| Substance Prohibitance (day/month/year)            | 03/01/2017                                                                                                                                                                                                                                                                                                                                                  |
| SVHC substance name                                | Lead CAS-No. 7439-92-1<br>Lead monoxide (lead oxide) CAS-No. 1317-36-8<br>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5<br>Melamine CAS-No. 108-78-1<br>6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol CAS-No. 119-47-1<br>Diboron trioxide CAS-No. 1303-86-2<br>Imidazolidine-2-thione (2-imidazoline-2-thiol) CAS-No. 96-45-7 |
| Net Weight                                         | 0.202 kg                                                                                                                                                                                                                                                                                                                                                    |
| minimum actuating force in directions of actuation | 20 N                                                                                                                                                                                                                                                                                                                                                        |
| length of the sensor                               | 89.7 mm                                                                                                                                                                                                                                                                                                                                                     |
| width of the sensor                                | 31 mm                                                                                                                                                                                                                                                                                                                                                       |
| <b>Ambient conditions</b>                          |                                                                                                                                                                                                                                                                                                                                                             |
| ambient temperature                                |                                                                                                                                                                                                                                                                                                                                                             |
| • during operation                                 | -25 ... +60 °C                                                                                                                                                                                                                                                                                                                                              |
| • during storage                                   | -40 ... +80 °C                                                                                                                                                                                                                                                                                                                                              |
| 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                          | metal                                                                                                                                                                                                                                                                                                                                                       |
| coating of the enclosure                           | cathodic dip coating                                                                                                                                                                                                                                                                                                                                        |
| design of the housing according to standard        | Yes                                                                                                                                                                                                                                                                                                                                                         |

| Drive Head                                  |                                                                                          |
|---------------------------------------------|------------------------------------------------------------------------------------------|
| design of the actuating element             | Other, without, ASi_basic switch with plug                                               |
| design of the switching function            | positive opening                                                                         |
| circuit principle                           | snap-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 |

| Approvals Certificates   |                   |
|--------------------------|-------------------|
| General Product Approval | Test Certificates |



[Type Test Certificates/Test Report](#)

[Type Test Certificates/Test Report](#)

| other | Environment |
|-------|-------------|
|-------|-------------|

[Confirmation](#)



[Environmental Confirmations](#)

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

Information on the packaging

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

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3SF1214-1LC05-1BA1>

Cax online generator

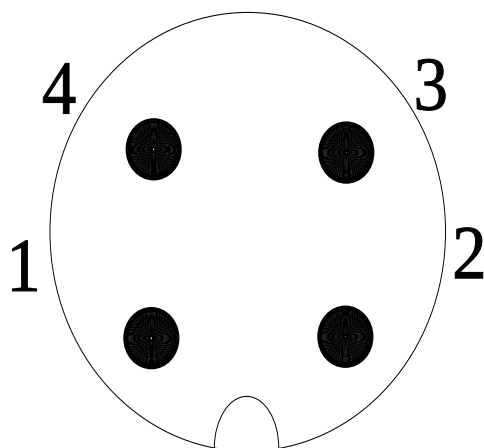
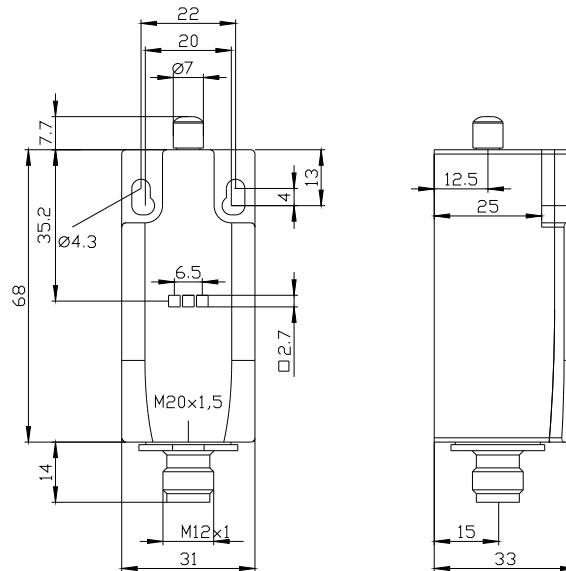
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SF1214-1LC05-1BA1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SF1214-1LC05-1BA1>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SF1214-1LC05-1BA1&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SF1214-1LC05-1BA1&lang=en)



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

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4/4/2026 