



Position switch with rounded plunger Metal enclosure, according to 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                      |                                            |
| • of the supplied basic switch                     | <a href="#">3SF1214-1KC05-1BA1</a>         |
| 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                                | IP66/IP67                                  |
| shock resistance according to IEC 60068-2-27       | 30g / 11 ms                                |
| vibration resistance according to IEC 60068-2-6    | 0.35 mm/5g                                 |
| 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 (Date)                      | 03/01/2017                                 |
| minimum actuating force in directions of actuation | 20 N                                       |
| AS-Interface slave profile                         | 0.B.F                                      |
| ID1 code                                           | F (hex, variable 0...F)                    |
| 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                                        |
| <b>Drive Head</b>                                  |                                            |
| design of the actuating element                    | Other, without, ASi_basic switch with plug |
| 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                                                                     |
| Certificates/ approvals                                           |  |                                                                                          |
| General Product Approval                                          |  | Declaration of Conformity                                                                |
|                                                                   |  | Test Certificates                                                                        |



[Type Test Certificates/Test Report](#)

[Type Test Certificates/Test Report](#)

other

[Confirmation](#)

#### Further information

Siemens has decided to exit the Russian market (see here).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3SF1214-1KC05-1BA1>

Cax online generator

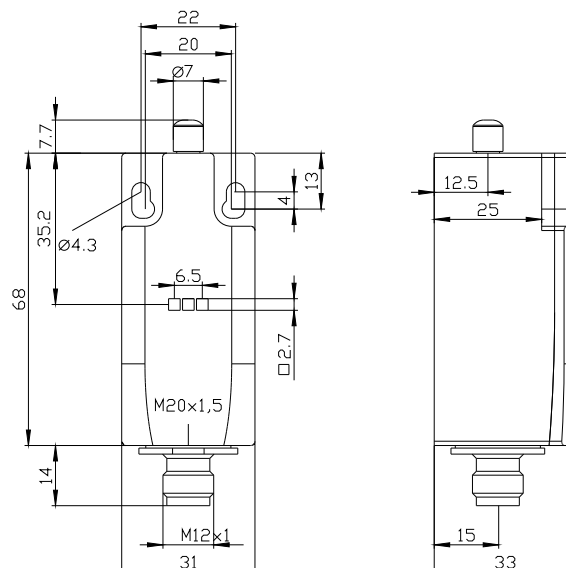
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SF1214-1KC05-1BA1>

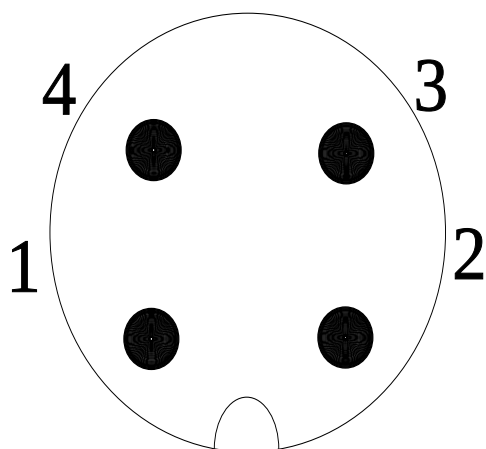
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3SF1214-1KC05-1BA1>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SF1214-1KC05-1BA1&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SF1214-1KC05-1BA1&lang=en)





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

last modified:

1/26/2022 