



SIRIUS, expansion module 3RK32 for modular safety system 3RK3 4/8 F-DI, 24 V DC configurable via MSS ES 22.5 mm width spring-loaded terminal up to SIL 3 (IEC 61508) up to Performance Level e (ISO 13849-1) without connecting cable

|                                                         |                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| product brand name                                      | SIRIUS                                                                                                                                                                                                                                                                                                                                    |
| product category                                        | Modular Safety System                                                                                                                                                                                                                                                                                                                     |
| design of the product                                   | 4/8 F-DI                                                                                                                                                                                                                                                                                                                                  |
| product function                                        | <ul style="list-style-type: none"> <li>• EMERGENCY OFF function</li> <li>• protective door monitoring</li> <li>• evaluation: electro-sensitive protective equipment</li> <li>• evaluation: selector switch</li> <li>• evaluation: two-hand operator panel</li> <li>• evaluation: enabling switch</li> <li>• monitored start-up</li> </ul> |
| insulation voltage rated value                          | 50 V                                                                                                                                                                                                                                                                                                                                      |
| degree of pollution                                     | 3                                                                                                                                                                                                                                                                                                                                         |
| surge voltage resistance rated value                    | 500 V                                                                                                                                                                                                                                                                                                                                     |
| shock resistance                                        | 15 g / 11 ms                                                                                                                                                                                                                                                                                                                              |
| vibration resistance according to IEC 60068-2-6         | 5 ... 500 Hz: 0.75 mm                                                                                                                                                                                                                                                                                                                     |
| reference code according to IEC 81346-2                 | K                                                                                                                                                                                                                                                                                                                                         |
| Substance Prohibitance (day/month/year)                 | 05/01/2012                                                                                                                                                                                                                                                                                                                                |
| 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                                                                                       |
| Net Weight                                              | 0.125 kg                                                                                                                                                                                                                                                                                                                                  |
| installation altitude at height above sea level maximum | 2 000 m                                                                                                                                                                                                                                                                                                                                   |
| relative humidity during operation                      | 10 ... 95 %                                                                                                                                                                                                                                                                                                                               |
| <b>Electromagnetic compatibility</b>                    |                                                                                                                                                                                                                                                                                                                                           |
| conducted interference                                  | <ul style="list-style-type: none"> <li>• due to burst according to IEC 61000-4-4</li> <li>• due to conductor-earth surge according to IEC 61000-4-5</li> <li>• due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>                                                                                                     |
| field-based interference according to IEC 61000-4-3     | 10 V/m, 3 V/m, 1 V/m                                                                                                                                                                                                                                                                                                                      |
| electrostatic discharge according to IEC 61000-4-2      | 4 kV contact discharge / 8 kV air discharge                                                                                                                                                                                                                                                                                               |
| <b>Safety related data</b>                              |                                                                                                                                                                                                                                                                                                                                           |
| category according to EN 954-1                          | 4                                                                                                                                                                                                                                                                                                                                         |
| IEC 62061                                               |                                                                                                                                                                                                                                                                                                                                           |
| Safety Integrity Level (SIL) according to IEC 62061     | SIL 3                                                                                                                                                                                                                                                                                                                                     |
| PFHD with high demand rate according to IEC 62061       | 1.89E-9 1/h                                                                                                                                                                                                                                                                                                                               |
| ISO 13849                                               |                                                                                                                                                                                                                                                                                                                                           |

|                                                                                                           |                                            |
|-----------------------------------------------------------------------------------------------------------|--------------------------------------------|
| performance level (PL) according to EN ISO 13849-1                                                        | e                                          |
| category according to EN ISO 13849-1                                                                      | 4                                          |
| <b>performance level (PL) according to ISO 13849-1</b>                                                    | PL e                                       |
| <b>IEC 61508</b>                                                                                          |                                            |
| Safety Integrity Level (SIL) according to IEC 61508                                                       | 3                                          |
| T1 value for proof test interval or service life according to IEC 61508                                   | 20 a                                       |
| <b>Electrical Safety</b>                                                                                  |                                            |
| <b>touch protection against electrical shock</b>                                                          | finger-safe                                |
| <b>design of the fuse link for short-circuit protection of non-solid-state switching element required</b> | NH Typ 3NA, DIAZED Typ 5SB, NEOZED Typ 5SE |

#### Inputs/ Outputs

|                                                                          |                         |
|--------------------------------------------------------------------------|-------------------------|
| <b>product function</b>                                                  |                         |
| • parameterizable outputs                                                | No                      |
| <b>number of inputs</b>                                                  |                         |
| • safety-related                                                         | 8                       |
| • non-safety-related                                                     | 0                       |
| number of outputs for testing contact-based sensors                      | 2                       |
| number of outputs as contact-affected switching element safety-related   |                         |
| • 1-channel                                                              | 0                       |
| • 2-channel                                                              | 0                       |
| <b>number of outputs as contact-less semiconductor switching element</b> |                         |
| • safety-related 2-channel                                               | 0                       |
| • non-safety-related                                                     | 0                       |
| <b>type of voltage</b>                                                   | DC                      |
| <b>control supply voltage 1 at DC rated value</b>                        | 24 V                    |
| <b>mounting position</b>                                                 | vertical                |
| <b>fastening method</b>                                                  | DIN rail                |
| <b>height</b>                                                            | 105 mm                  |
| <b>width</b>                                                             | 22.5 mm                 |
| <b>depth</b>                                                             | 124 mm                  |
| <b>type of electrical connection</b>                                     | spring-loaded terminals |

#### Approvals Certificates

|             |                          |     |
|-------------|--------------------------|-----|
| Environment | General Product Approval | EMV |
|-------------|--------------------------|-----|

[Environmental Conformations](#)



|                   |                   |       |
|-------------------|-------------------|-------|
| Functional Safety | Test Certificates | other |
|-------------------|-------------------|-------|

[Miscellaneous](#)

[Type Examination Certificate](#)

[Type Examination Certificate](#)

[Type Test Certificates/Test Report](#)

[Confirmation](#)



#### 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=3RK3211-2AA10>

##### Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK3211-2AA10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK3211-2AA10>

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



