

SIRIUS, expansion module 3RK32 for modular safety system 3RK3 2/4 F-DI, 2 F-DO, 24 V DC/1.2 A 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

|   |  |
|---|--|
| <b>product brand name</b>   | SIRIUS   |
| <b>product category</b>   | Modular Safety System  |
| <b>design of the product</b>  | 2/4 F-DI 2 F-DO  |
| <b>product function</b>   |  |
| <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> | <ul style="list-style-type: none"> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> </ul>  |
| <b>insulation voltage rated value</b>   | 50 V   |
| <b>degree of pollution</b>  | 3  |
| <b>surge voltage resistance rated value</b>   | 500 V  |
| <b>shock resistance</b>   | 15 g / 11 ms   |
| <b>vibration resistance according to IEC 60068-2-6</b>  | 5 ... 500 Hz: 0.75 mm  |
| <b>reference code according to IEC 81346-2</b>  | K  |
| <b>Substance Prohibitance (day/month/year)</b>  | 05/01/2012   |
| <b>SVHC substance name</b>  | 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 |
| <b>Net Weight</b>   | 0.156 kg   |
| installation altitude at height above sea level maximum   | 2 000 m  |
| relative humidity during operation  | 10 ... 95 %  |
| <b>Electromagnetic compatibility</b>  |  |
| <b>conducted interference</b>   |  |
| <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>   | <ul style="list-style-type: none"> <li>2 kV (power ports)</li> <li>2 kV</li> <li>1 kV</li> </ul>   |
| <b>field-based interference according to IEC 61000-4-3</b>  | 10 V/m, 3 V/m, 1 V/m   |
| <b>electrostatic discharge according to IEC 61000-4-2</b>   | 4 kV contact discharge / 8 kV air discharge  |
| <b>Safety related data</b>  |  |
| <b>category according to EN 954-1</b>   | 4  |
| IEC 62061   |  |
| <b>Safety Integrity Level (SIL) according to IEC 62061</b>  | SIL 3  |
| PFHD with high demand rate according to IEC 62061   | 2.7E-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   |
| IEC 61508   |  |
| Safety Integrity Level (SIL) according to IEC 61508   | 3  |
| <b>Average probability of failure on demand (PFDavg) with low demand rate acc. to IEC 61508</b>   | 8.34E-6 1/y  |
| T1 value for proof test interval or service life according to IEC 61508   | 20 a   |
| Electrical Safety   |  |

|  |                         |
|--|-------------------------|
| touch protection against electrical shock                                | finger-safe             |
| <b>Inputs/ Outputs</b>   |                         |
| <b>product function</b>  |                         |
| • parameterizable outputs  | Yes                     |
| <b>number of inputs</b>  |                         |
| • safety-related   | 4                       |
| • 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   | 2                       |
| • non-safety-related   | 0                       |
| switching capacity current of semiconductor outputs at DC-13 at 24 V     | 1.2 A                   |
| <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=3RK3231-2AA10>

Cax online generator

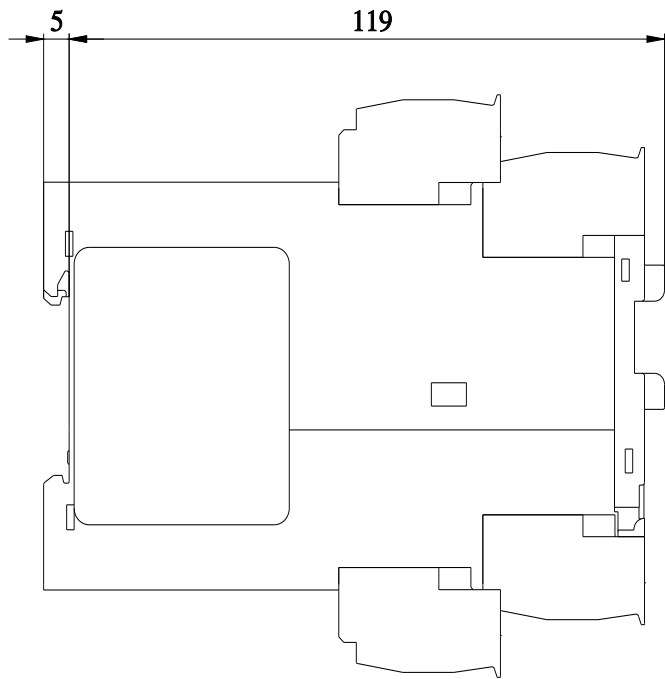
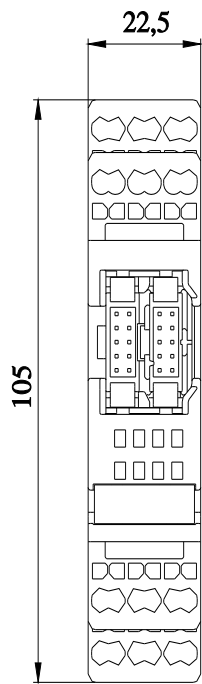
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK3231-2AA10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK3231-2AA10>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK3231-2AA10&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK3231-2AA10&lang=en)



last modified:

5/8/2026 