



SIRIUS, expansion module 3RK32 for modular safety system 3RK3 4 F-DO, 24 V DC/ 2 A configurable via MSS ES 22.5 mm width screw 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 F-DO |
| product function | |
| • EMERGENCY OFF function | No |
| • protective door monitoring | No |
| • evaluation: electro-sensitive protective equipment | No |
| • evaluation: selector switch | No |
| • evaluation: two-hand operator panel | No |
| • evaluation: enabling switch | No |
| • monitored start-up | No |
| insulation voltage rated value | 50 V |
| degree of pollution | 3 |
| surge voltage resistance rated value | 500 V |
| shock resistance | 15g / 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 (Date) | 05/01/2012 |
| SVHC substance name | Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 |
| Weight | 0.161 kg |
| installation altitude at height above sea level maximum | 2 000 m |
| relative humidity during operation | 10 ... 95 % |
| Electromagnetic compatibility | |
| conducted interference | |
| • due to burst according to IEC 61000-4-4 | 2 kV (power ports) |
| • due to conductor-earth surge according to IEC 61000-4-5 | 2 kV |
| • due to conductor-conductor surge according to IEC 61000-4-5 | 1 kV |
| 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 |
| Safety related data | |
| 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 | 3.18E-9 1/h |
| ISO 13849 | |
| performance level (PL) according to EN ISO 13849-1 | e |
| category according to EN ISO 13849-1 | 4 |
| performance level (PL) according to ISO 13849-1 | PL e |
| IEC 61508 | |

| | |
|---|------------|
| Safety Integrity Level (SIL) according to IEC 61508 | 3 |
| Average probability of failure on demand (PFDavg) with low demand rate acc. to IEC 61508 | 2.2E-5 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 |

Inputs/ Outputs

| | |
|--|----------------|
| product function | |
| • parameterizable outputs | Yes |
| number of inputs | |
| • safety-related | 0 |
| • non-safety-related | 0 |
| number of outputs for testing contact-based sensors | 0 |
| number of outputs as contact-affected switching element safety-related | |
| • 1-channel | 0 |
| • 2-channel | 0 |
| number of outputs as contact-less semiconductor switching element | |
| • safety-related 2-channel | 4 |
| • non-safety-related | 0 |
| switching capacity current of semiconductor outputs at DC-13 at 24 V | 2 A |
| type of voltage | DC |
| control supply voltage 1 at DC rated value | 24 V |
| mounting position | vertical |
| fastening method | DIN rail |
| height | 102 mm |
| width | 22.5 mm |
| depth | 124 mm |
| type of electrical connection | screw terminal |

Approvals Certificates

| | | |
|---------------------------------|------------|--------------------------|
| General Product Approval | EMV | Functional Safety |
|---------------------------------|------------|--------------------------|



[Miscellaneous](#)

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

[Type Examination Certificate](#)

[Type Examination Certificate](#)

[Type Test Certificates/Test Report](#)



[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=3RK3242-1AA10>

Cax online generator

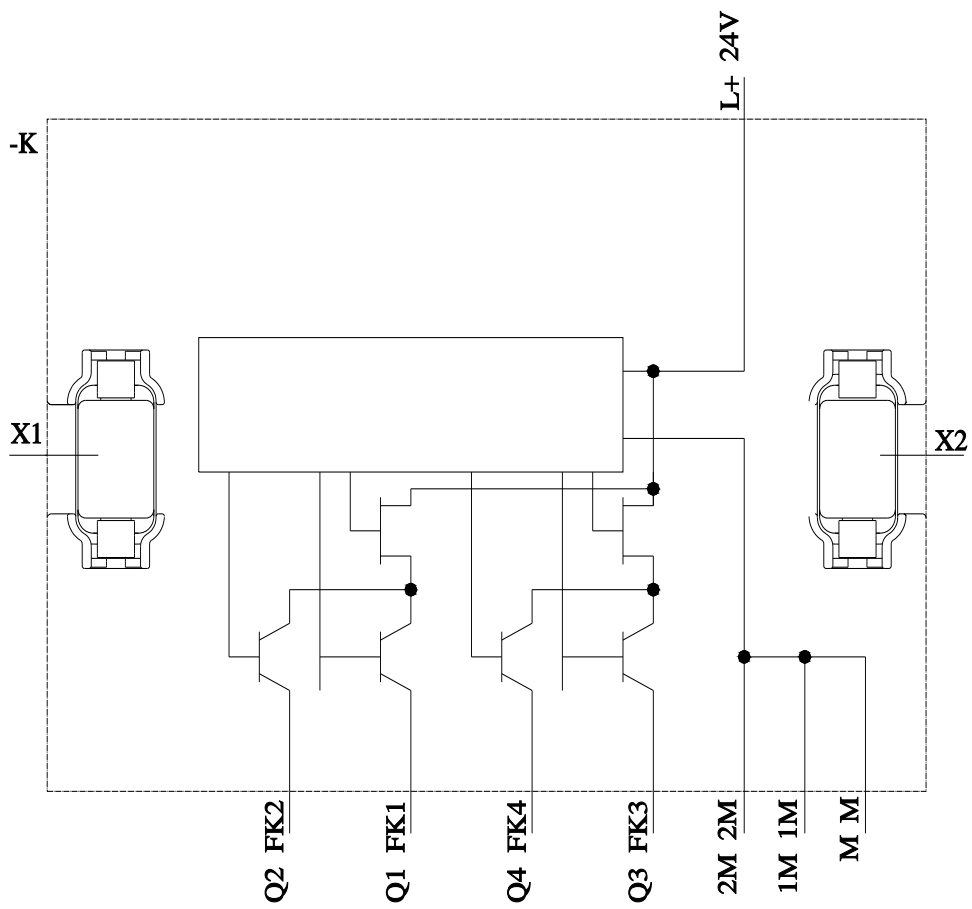
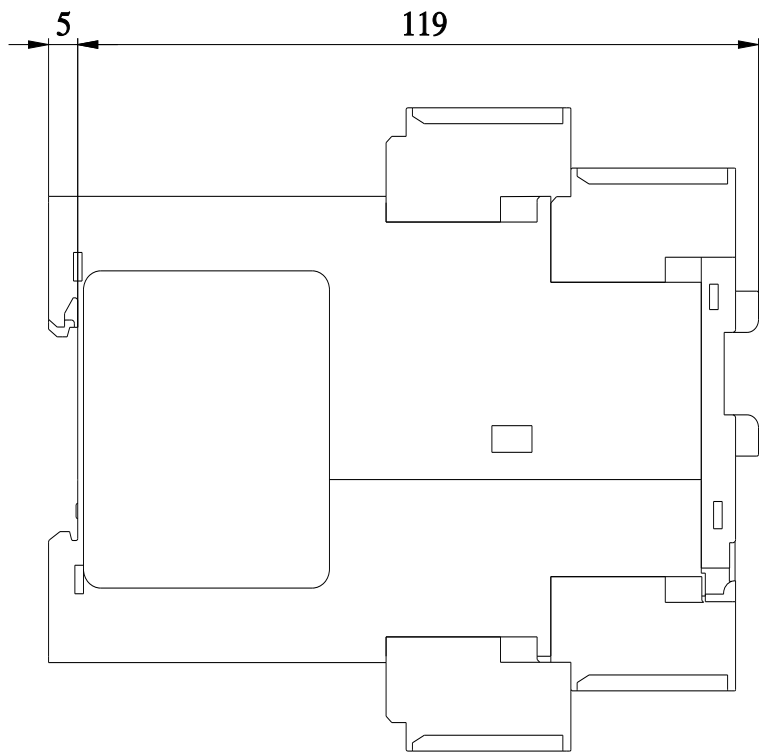
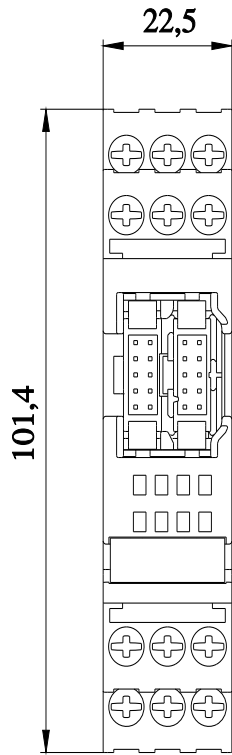
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK3242-1AA10>

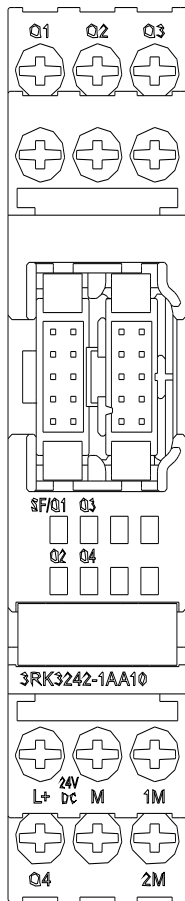
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RK3242-1AA10>

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

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK3242-1AA10&lang=en





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