



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 screw 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>	
• EMERGENCY OFF function	Yes
• protective door monitoring	Yes
• evaluation: electro-sensitive protective equipment	Yes
• evaluation: selector switch	Yes
• evaluation: two-hand operator panel	Yes
• evaluation: enabling switch	Yes
• monitored start-up	Yes
<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 Lead monoxide (lead oxide) CAS-No. 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5 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>	
• 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
<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
<b>IEC 61508</b>	
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

<b>Electrical Safety</b>	
<b>touch protection against electrical shock</b>	finger-safe

**Inputs/ Outputs**

<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>	102 mm
<b>width</b>	22.5 mm
<b>depth</b>	124 mm
<b>type of electrical connection</b>	screw terminal

**Approvals Certificates**

Environment	General Product Approval	EMV
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[Environmental Conformations](#)



Functional Safety	Test Certificates	other
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[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>

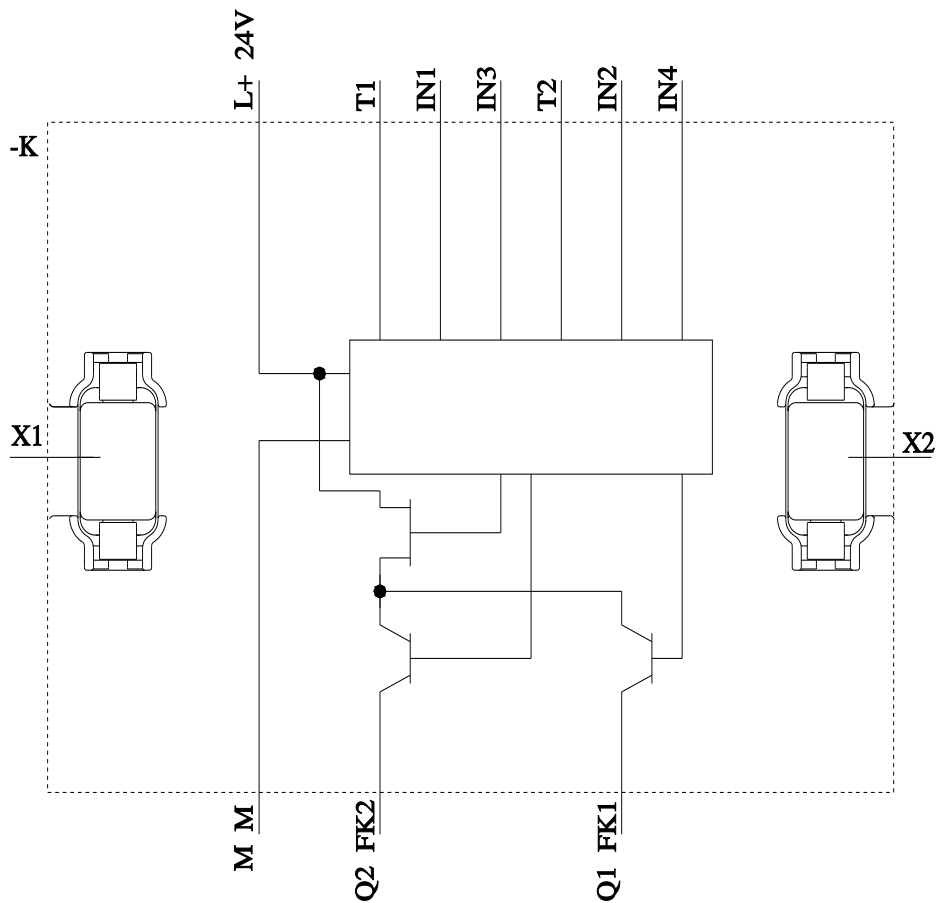
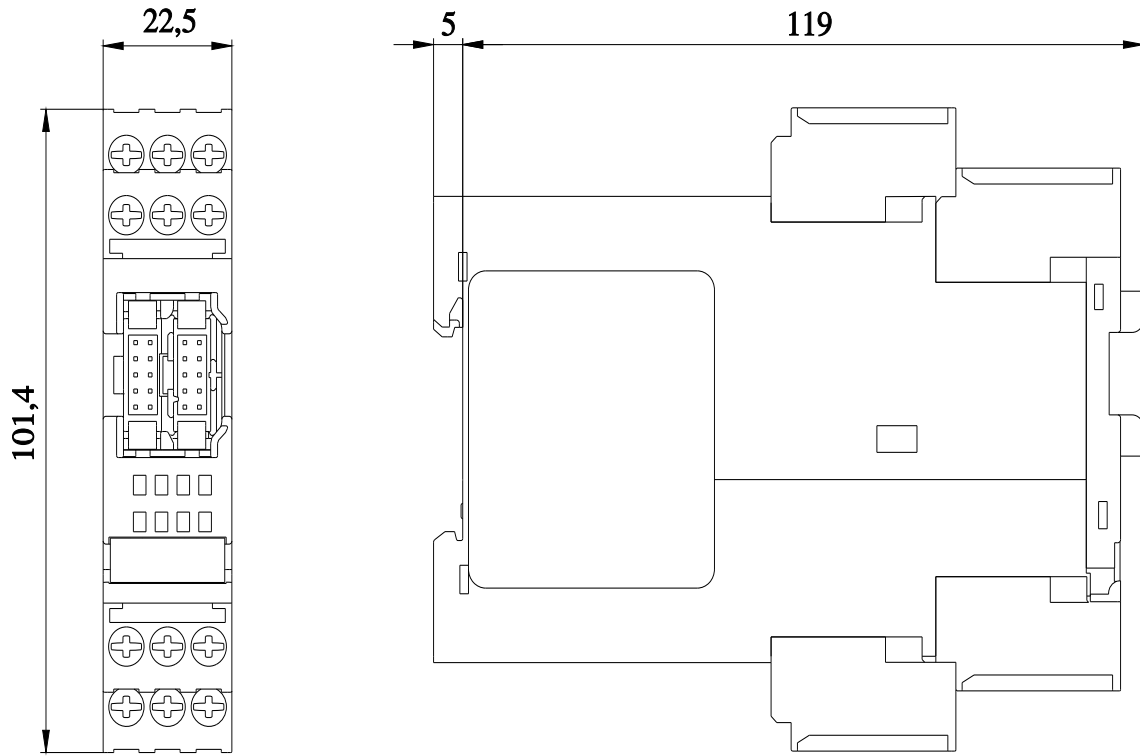
Industry Mall (Online ordering system)

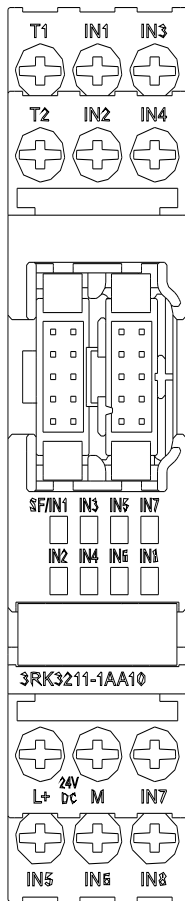
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK3231-1AA10>

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK3231-1AA10>

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





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