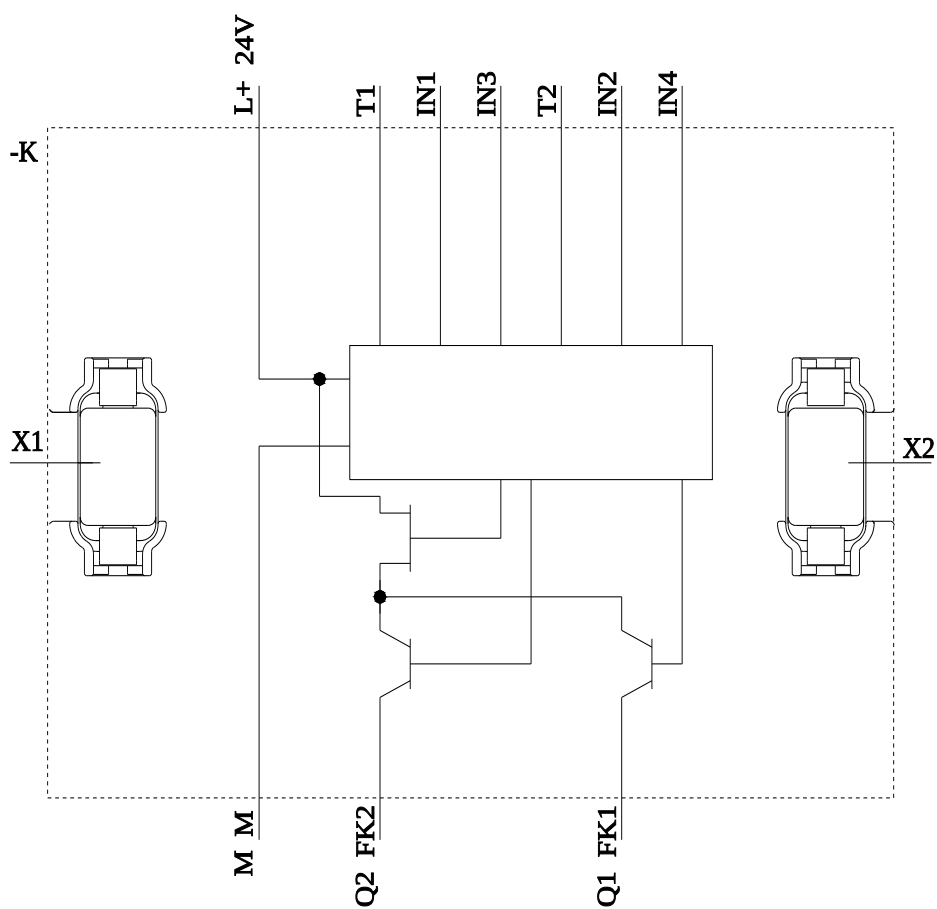
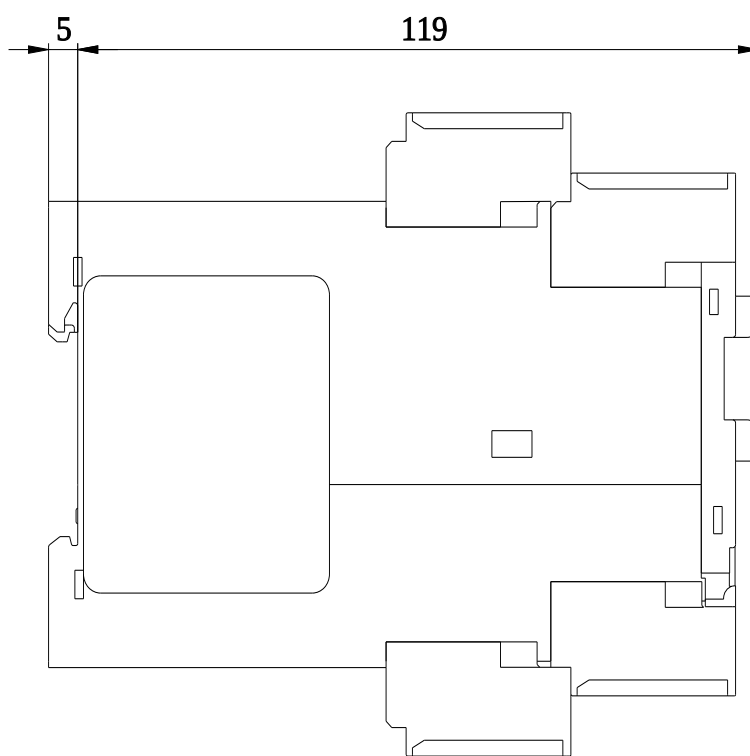
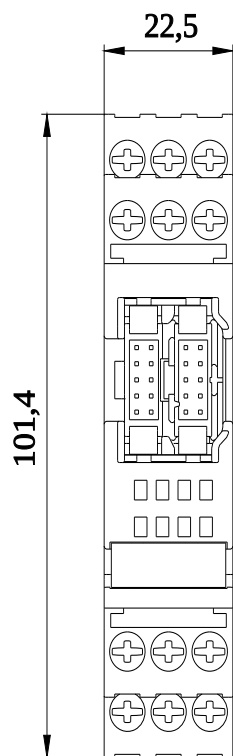


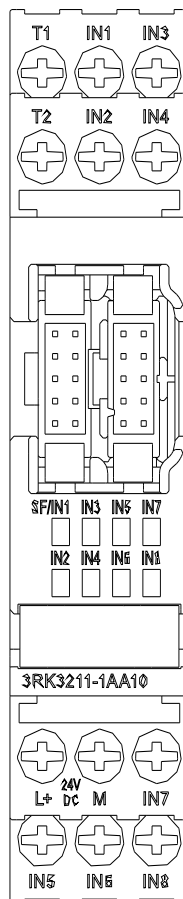


SIRIUS, expansion module 3RK32 for modular safety system 3RK3 2/4 F-DI, 2 F-DO, 24 V DC/1.2 A configurable via MSS ES 22.5 mm width screw terminal up to SIL 3 (IEC 61508) up to Performance Level e (ISO 13849-1) without connecting cable

product brand name	SIRIUS
product category	Modular Safety System
design of the product	2/4 F-DI 2 F-DO
product function	• EMERGENCY OFF function • protective door monitoring • evaluation: electro-sensitive protective equipment • evaluation: selector switch • evaluation: two-hand operator panel • evaluation: enabling switch • monitored start-up
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 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7
Weight	0.156 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 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5
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	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
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	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	
Inputs/ Outputs		
product function		
• parameterizable outputs	Yes	
number of inputs		
• 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	
number of outputs as contact-less semiconductor switching element		
• safety-related 2-channel	2	
• non-safety-related	0	
switching capacity current of semiconductor outputs at DC-13 at 24 V	1.2 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
  EG-Konf.    RCM		Miscellaneous
Functional Safety	Test Certificates	other
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=3RK3231-1AA10		
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK3231-1AA10		
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RK3231-1AA10		
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK3231-1AA10&lang=en		





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9/5/2025 [↗](#)