

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	• 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	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 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 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol CAS-No. 119-47-1
Net Weight	0.15 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	1.89E-9 1/h
ISO 13849	

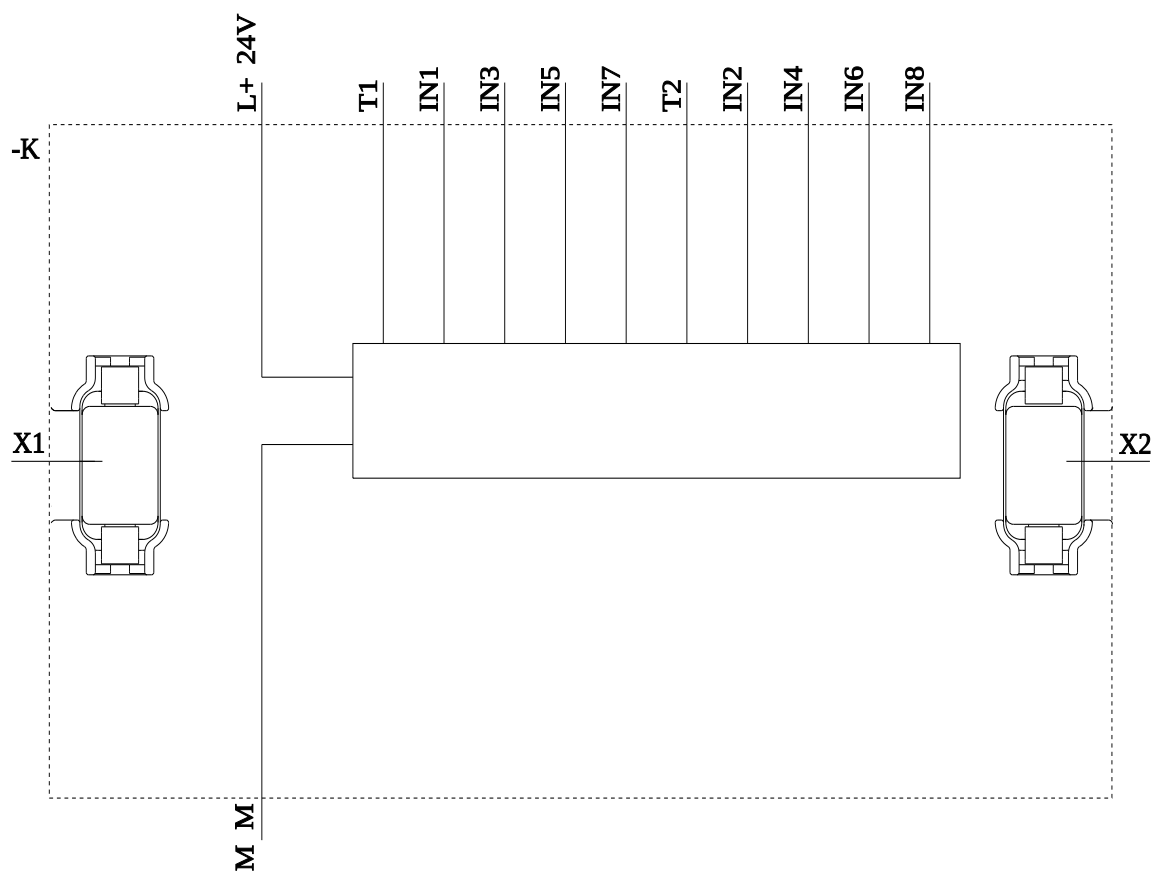
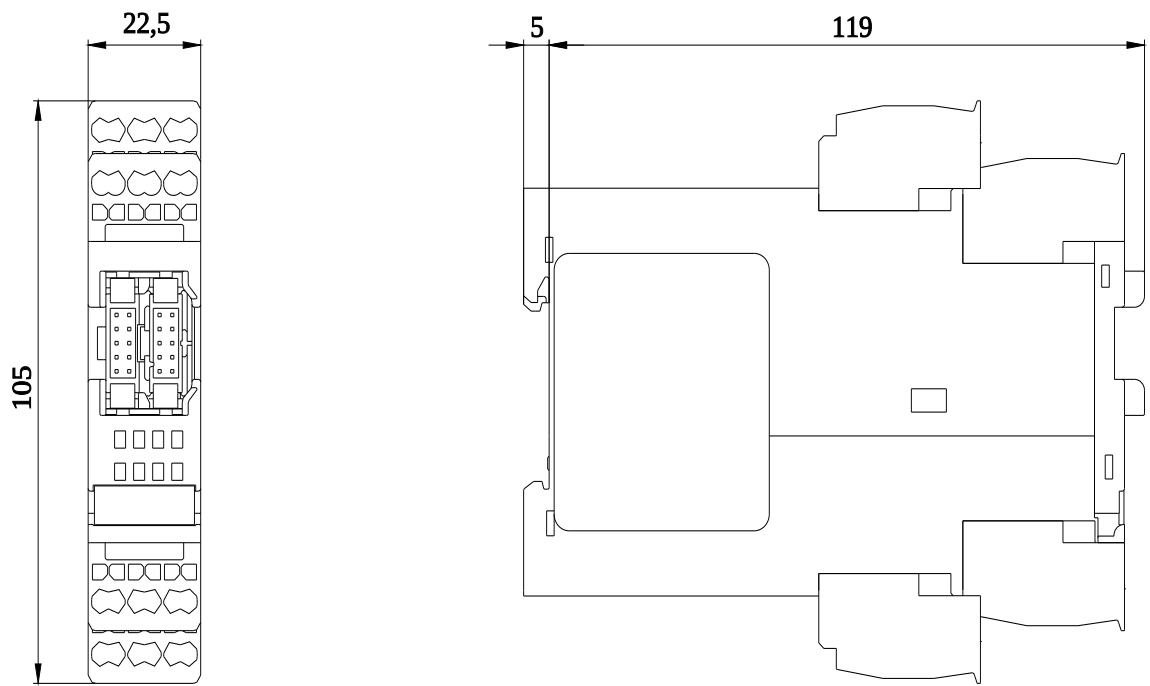
performance level (PL) according to EN ISO 13849-1		e
category according to EN ISO 13849-1		4
performance level (PL) according to ISO 13849-1		PL e
IEC 61508		
Safety Integrity Level (SIL) according to IEC 61508		3
Average probability of failure on demand (PFDavg) with low demand rate acc. to IEC 61508		4.29E-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
design of the fuse link for short-circuit protection of non-solid-state switching element required		NH Typ 3NA, DIAZED Typ 5SB, NEOZED Typ 5SE
Inputs/ Outputs		
product function		
• parameterizable outputs		No
number of inputs		
• 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
number of outputs as contact-less semiconductor switching element		
• safety-related 2-channel		0
• non-safety-related		0
type of voltage		DC
control supply voltage 1 at DC rated value		24 V
mounting position		vertical
fastening method		DIN rail
height		105 mm
width		22.5 mm
depth		124 mm
type of electrical connection		spring-loaded terminals
Approvals Certificates		
Environment	General Product Approval	EMV

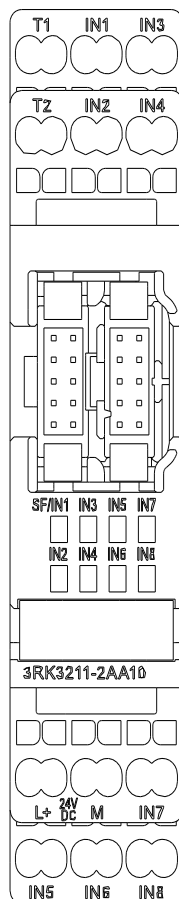
[Environmental Conformations](#)



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,...)





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