







SIRIUS, Extension module 3RK32 for modular Safety system 3RK3 4/8 F-DI, 24 V DC Can be parameterized via MSS ES 22.5 mm overall width Spring-type terminal Up to SIL3 (IEC 61508) Up to Performance Level E (ISO 13849-1) without connection cable

General technical data

product brand name		SIRIUS
product category		Modular Safety System
product designation		Expansion module
design of the product		4/8 F-DI
protection class IP		IP20
shock resistance		15g / 11 ms
degree of pollution		3
mounting position		vertical
installation altitude at height above sea level maximum	m	2 000
ambient temperature		
• during storage	°C	-40 ... +85
• during operation	°C	-20 ... +60
• during transport	°C	-40 ... +85
relative humidity during operation	%	10 ... 95
conducted interference due to burst according to IEC 61000-4-4		2 kV (power ports)
conducted interference due to conductor-earth surge according to IEC 61000-4-5		2 kV
conducted interference due to conductor-conductor surge according to IEC 61000-4-5		1 kV
electrostatic discharge according to IEC 61000-4-2		4 kV contact discharge / 8 kV air discharge
field-based interference according to IEC 61000-4-3		10 V/m, 3 V/m, 1 V/m
surge voltage resistance rated value	V	500
insulation voltage rated value	V	50
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750		K
reference code according to EN 61346-2		K
product function		
• EMERGENCY OFF function		Yes
• protective door monitoring		Yes
• evaluation: electro-sensitive protective equipment		Yes
• evaluation: selector switch		Yes
• pressure-sensitive mat monitoring		Yes
• evaluation: two-hand operator panel		Yes
• evaluation: enabling switch		Yes
• monitored start-up		Yes

Control circuit/ Control

type of voltage		DC
control supply voltage 1 at DC rated value	V	24
operating range factor control supply voltage rated value of magnet coil		0.85 ... 1.15

Auxiliary circuit			
product function <ul style="list-style-type: none">parameterizable outputs		No	
number of inputs <ul style="list-style-type: none">safety-relatednon-safety-related		8 0	
number of outputs <ul style="list-style-type: none">as contact-affected switching element safety-related<ul style="list-style-type: none">single channel2-channelas contact-less semiconductor switching element<ul style="list-style-type: none">safety-related 2-channelnon-safety-related 2-channelfor testing contact-based sensors		0 0 0 0 2	
Short-circuit protection			
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	
Installation/ mounting/ dimensions			
fastening method		DIN rail	
width	mm	22.5	
height	mm	105	
depth	mm	124	
Connections/ Terminals			
type of electrical connection		spring-loaded terminals	
connectable conductor cross-section for auxiliary contacts <ul style="list-style-type: none">solid or strandedfinely stranded<ul style="list-style-type: none">with core end processingwithout core end processing	mm ² mm ² mm ²	0.25 ... 1.5 0.25 ... 1.5 0.25 ... 1.5	
Certificates/ approvals			
General Product Approval	EMC	Functional Safety/Safety of Machinery	
	Confirmation		
			
		Type Examination Certificate	
Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates	other
Miscellaneous		 EG-Konf.	Type Test Certificates/Test Report
			Confirmation
Safety related data			
Safety Integrity Level (SIL) according to IEC 61508		3	
performance level (PL) according to EN ISO 13849-1		e	
category according to EN 954-1		4	
PFHD with high demand rate according to EN 62061	1/h	0.0000000019	
Average probability of failure on demand (PFDavg) with low demand rate acc. to IEC 61508	1/y	0.0000043	
T1 value for proof test interval or service life according to IEC 61508	a	20	
touch protection against electrical shock		finger-safe	
Further information			
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

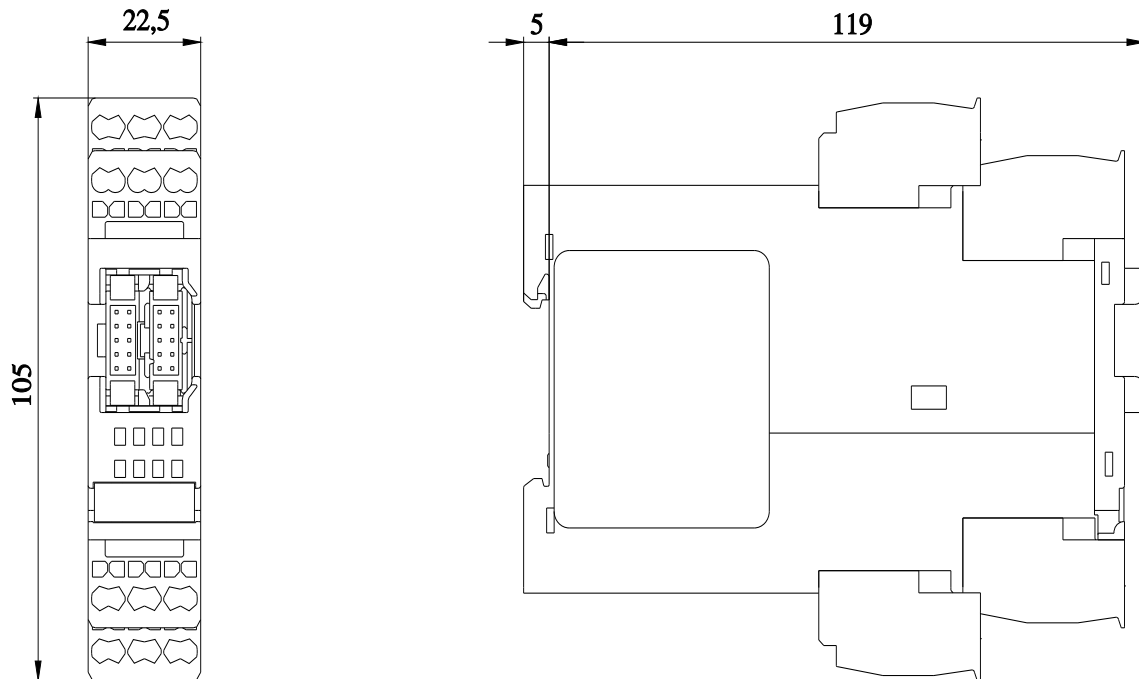
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK3211-2AA10>

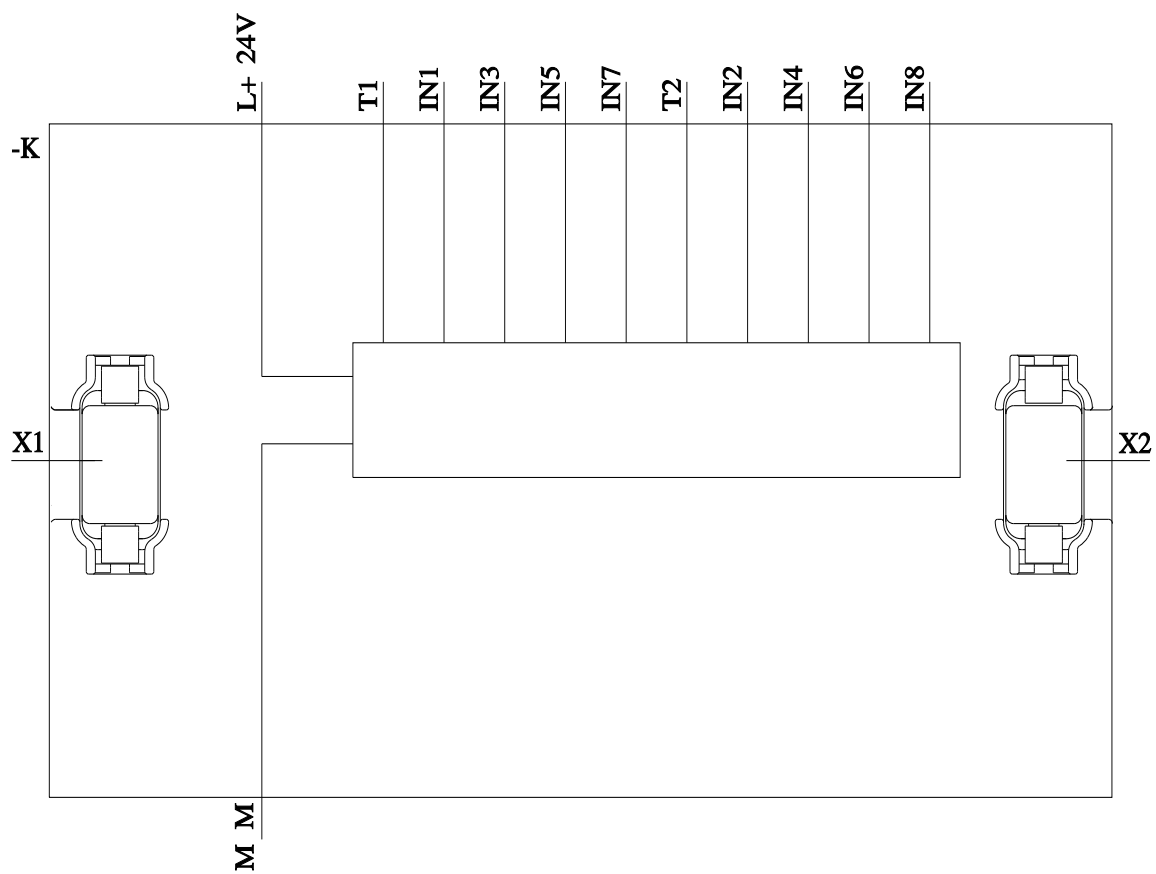
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RK3211-2AA10>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK3211-2AA10&lang=en





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