SIEMENS

Data sheet 3RK3221-2AA10



SIRIUS, Extension module 3RK32 for modular Safety system 3RK3 2/4 F-DI, 1/2 F-RO, 24 V DC/1 A Can be parameterized via MSS ES 22.5 mm overall width Springtype 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		2/4 F-DI 1/2 F-RO		
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	4 000		
insulation voltage rated value	V	300		
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				
parameterizable outputs		Yes		
number of inputs				
safety-related		4		
 non-safety-related 		0		
number of outputs				
 as contact-affected switching element safety-related 				
— single channel		2		
— 2-channel		0		
 as contact-less semiconductor switching element 				
 — safety-related 2-channel 		0		
 non-safety-related 2-channel 		0		
 for testing contact-based sensors 		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, NEO	ZED 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				
 solid or stranded 	mm²	0.25 1.5		
 finely stranded 				
 — with core end processing 	mm²	0.25 1.5		
 — without core end processing 	mm²	0.25 1.5		
Certificates/ approvals				
General Product Approval			EMC	





Confirmation







Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

other

Type Examination Certificate Miscellaneous





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		е		
category according to EN 954-1		4		
PFHD with high demand rate according to EN 62061	1/h	3.79E-9		
Average probability of failure on demand (PFDavg) with low demand rate acc. to IEC 61508	1/y	5.85E-6		
T1 value for proof test interval or service life according to IEC 61508	а	20		
touch protection against electrical shock		finger-safe		
Further information				

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

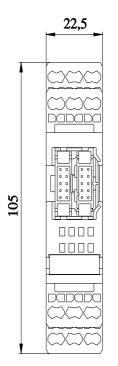
Industry Mall (Online ordering system)

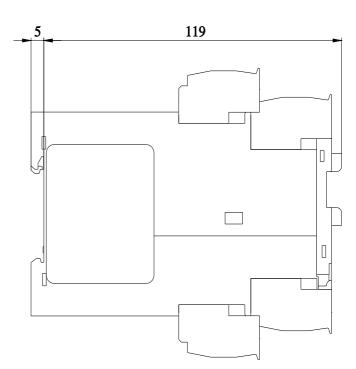
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK3221-2AA10

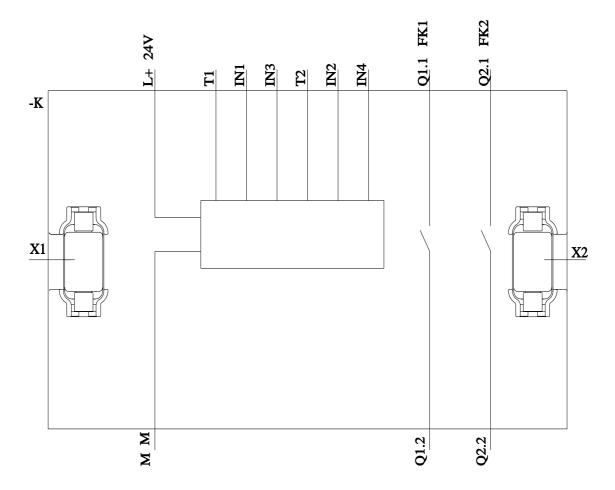
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK3221-2AA10 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RK3221-2AA10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK3221-2AA10&lang=en







last modified: 11/21/2022 🖸