



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 acc. to IEC 61000-4-4		2 kV (power ports)
conducted interference due to conductor-earth surge acc. to IEC 61000-4-5		2 kV
conducted interference due to conductor-conductor surge acc. to IEC 61000-4-5		1 kV
electrostatic discharge acc. to IEC 61000-4-2		4 kV contact discharge / 8 kV air discharge
field-based interference acc. 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 acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		K
reference code acc. to DIN 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

<b>product function</b>		
<ul style="list-style-type: none"> <li>parameterizable outputs</li> </ul>		No
<b>number of inputs</b>		
<ul style="list-style-type: none"> <li>safety-related</li> <li>non-safety-related</li> </ul>		8 0
<b>number of outputs</b>		
<ul style="list-style-type: none"> <li>as contact-affected switching element safety-related <ul style="list-style-type: none"> <li>single channel</li> <li>2-channel</li> </ul> </li> <li>as contact-less semiconductor switching element <ul style="list-style-type: none"> <li>safety-related 2-channel</li> <li>non-safety-related 2-channel</li> </ul> </li> <li>for testing contact-based sensors</li> </ul>		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
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#### Installation/ mounting/ dimensions

fastening method		standard rail
width	mm	22.5
height	mm	105
depth	mm	124



#### Connections/ Terminals

type of electrical connection		spring-loaded terminals
<b>connectable conductor cross-section for auxiliary contacts</b>		
<ul style="list-style-type: none"> <li>solid or stranded</li> <li>finely stranded <ul style="list-style-type: none"> <li>with core end processing</li> <li>without core end processing</li> </ul> </li> </ul>	mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup>	0.25 ... 1.5 0.25 ... 1.5 0.25 ... 1.5

#### Certificates/ approvals

General Product Approval	EMC	Functional Safety/Safety of Machinery
  		<a href="#">Type Examination Certificate</a> <a href="#">Miscellaneous</a>

#### Declaration of Conformity

Declaration of Conformity	Test Certificates	other
<a href="#">Miscellaneous</a> 	<a href="#">Type Test Certificates/Test Report</a>	<a href="#">Confirmation</a> 

#### Safety related data

Safety Integrity Level (SIL) acc. to IEC 61508		3
performance level (PL) acc. to EN ISO 13849-1		e
category acc. to EN 954-1		4
PFHD with high demand rate acc. 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 acc. to	y	20

IEC 61508		
touch protection against electrical shock		finger-safe
<b>Further information</b>		

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

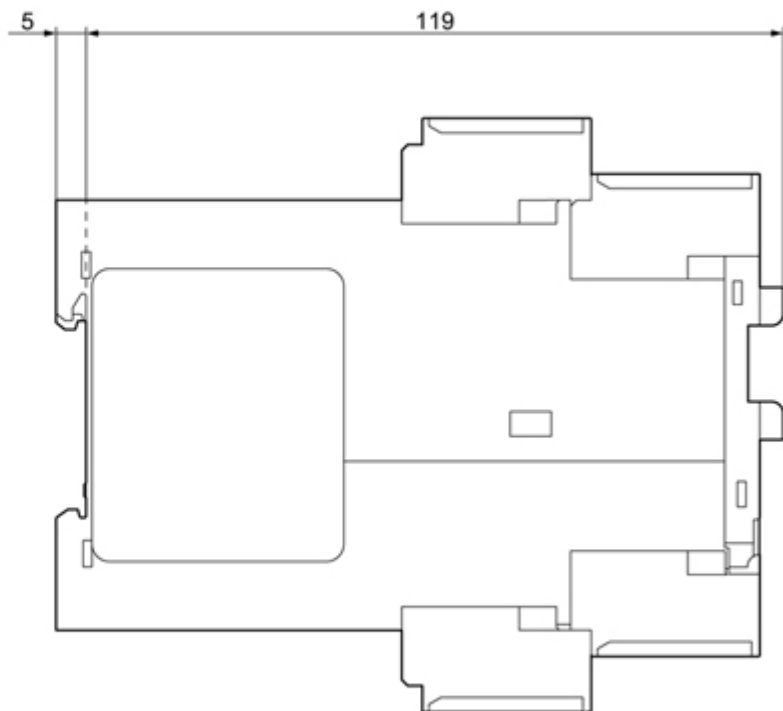
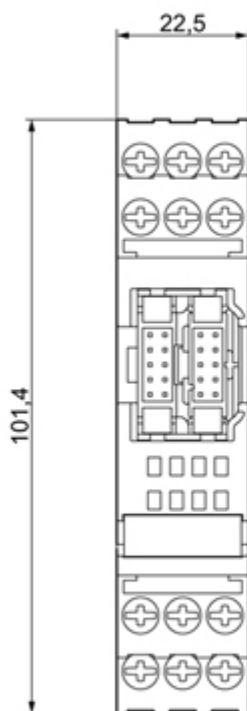
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK3211-2AA10>

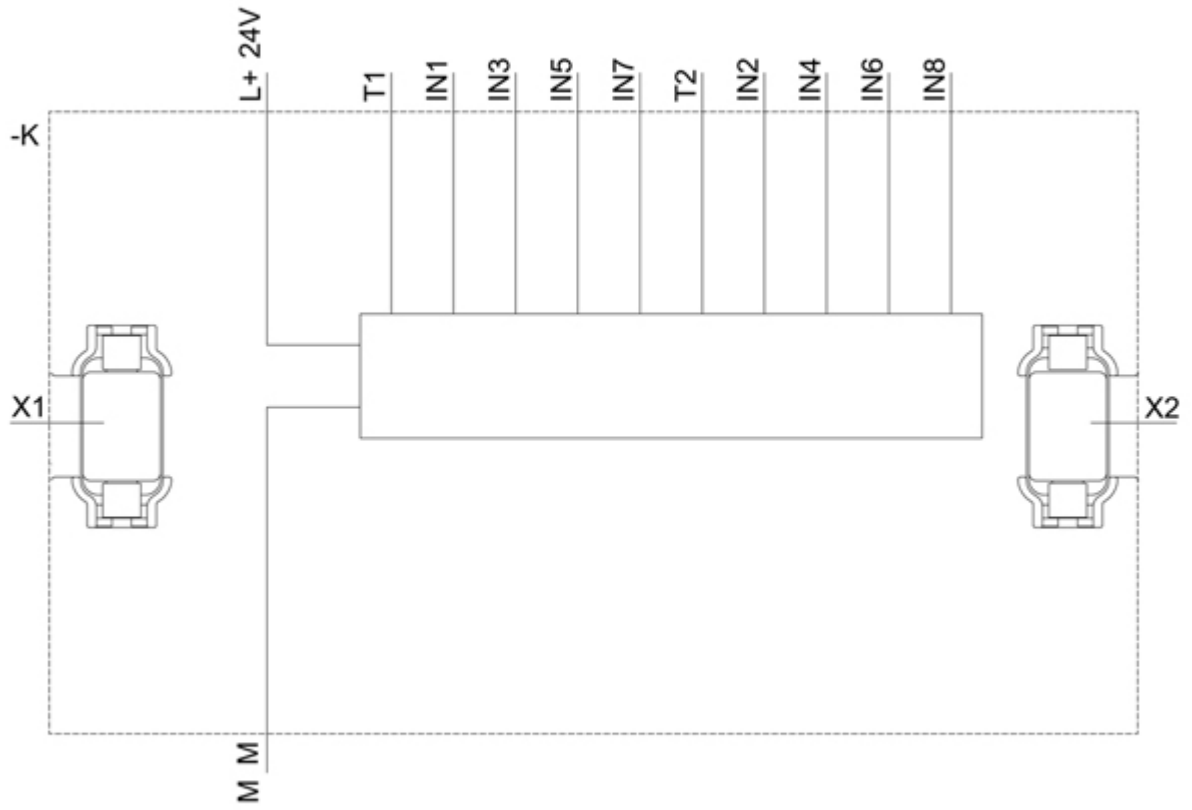
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

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





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