

SIRIUS, expansion module 3RK32 for modular safety system 3RK3 2/4 F-DI, 1/2 F-RO, 24 V DC/1 A 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

<b>product brand name</b>	SIRIUS
<b>product category</b>	Modular Safety System
<b>design of the product</b>	2/4 F-DI 1/2 F-RO
<b>product function</b>	
<ul style="list-style-type: none"> <li>• EMERGENCY OFF function</li> <li>• protective door monitoring</li> <li>• evaluation: electro-sensitive protective equipment</li> <li>• evaluation: selector switch</li> <li>• evaluation: two-hand operator panel</li> <li>• evaluation: enabling switch</li> <li>• monitored start-up</li> </ul>	<ul style="list-style-type: none"> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> </ul>
<b>insulation voltage rated value</b>	300 V
<b>degree of pollution</b>	3
<b>surge voltage resistance rated value</b>	4 000 V
<b>shock resistance</b>	15 g / 11 ms
<b>vibration resistance according to IEC 60068-2-6</b>	5 ... 500 Hz: 0.75 mm
<b>reference code according to IEC 81346-2</b>	K
<b>Substance Prohibitance (day/month/year)</b>	05/01/2012
<b>SVHC substance name</b>	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
<b>Net Weight</b>	0.194 kg
installation altitude at height above sea level maximum	2 000 m
relative humidity during operation	10 ... 95 %
<b>Electromagnetic compatibility</b>	
<b>conducted interference</b>	
<ul style="list-style-type: none"> <li>• due to burst according to IEC 61000-4-4</li> <li>• due to conductor-earth surge according to IEC 61000-4-5</li> <li>• due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	<ul style="list-style-type: none"> <li>2 kV (power ports)</li> <li>2 kV</li> <li>1 kV</li> </ul>
<b>field-based interference according to IEC 61000-4-3</b>	10 V/m, 3 V/m, 1 V/m
<b>electrostatic discharge according to IEC 61000-4-2</b>	4 kV contact discharge / 8 kV air discharge
<b>Safety related data</b>	
<b>category according to EN 954-1</b>	4
IEC 62061	
<b>Safety Integrity Level (SIL) according to IEC 62061</b>	SIL 3
PFHD with high demand rate according to IEC 62061	3.79E-9 1/h
ISO 13849	
performance level (PL) according to EN ISO 13849-1	e
category according to EN ISO 13849-1	4
<b>performance level (PL) according to ISO 13849-1</b>	PL e
IEC 61508	
Safety Integrity Level (SIL) according to IEC 61508	3
<b>Average probability of failure on demand (PFDavg) with low demand rate acc. to IEC 61508</b>	5.85E-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

<b>Inputs/ Outputs</b>	
<b>product function</b>	
• parameterizable outputs	Yes
<b>number of inputs</b>	
• 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	2
• 2-channel	0
<b>number of outputs as contact-less semiconductor switching element</b>	
• safety-related 2-channel	0
• non-safety-related	0
<b>switching capacity current of the NO contacts of the relay outputs at DC-13</b>	
• at 24 V	1 A
• at 230 V	0.1 A
<b>switching capacity current of the NO contacts of the relay outputs at AC-15</b>	
• at 24 V	2 A
• at 230 V	2 A
<b>type of voltage</b>	DC
<b>control supply voltage 1 at DC rated value</b>	24 V
<b>mounting position</b>	vertical
<b>fastening method</b>	DIN rail
<b>height</b>	105 mm
<b>width</b>	22.5 mm
<b>depth</b>	124 mm
<b>type of electrical connection</b>	spring-loaded terminals

**Approvals Certificates**

Environment	General Product Approval
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[Environmental Conformations](#)



EMV	Functional Safety	Test Certificates	other
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[Miscellaneous](#)

[Type Examination Certificate](#)

[Type Examination Certificate](#)

[Type Test Certificates/Test Report](#)

[Confirmation](#)

**other**



**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=3RK3221-2AA10>

Cax online generator

<https://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, ...)

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK3221-2AA10&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK3221-2AA10&lang=en)

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last modified:

5/8/2026 