



SIRIUS, expansion module 3RK32 for modular safety system 3RK3 4/8 F-RO, 24 V DC/2 A configurable via MSS ES 45 mm width screw 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-RO
product function	
• EMERGENCY OFF function	No
• protective door monitoring	No
• evaluation: electro-sensitive protective equipment	No
• evaluation: selector switch	No
• evaluation: two-hand operator panel	No
• evaluation: enabling switch	No
• monitored start-up	No
insulation voltage rated value	300 V
degree of pollution	3
surge voltage resistance rated value	4 000 V
shock resistance	15g / 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 (Date)	05/01/2012
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7 6,6'-di-tert-butyl-2,2'-methylene-di-p-cresol - 119-47-1
Weight	0.43 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	2 kV (power ports)
• due to conductor-earth surge according to IEC 61000-4-5	2 kV
• due to conductor-conductor surge according to IEC 61000-4-5	1 kV
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	7.15E-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	4.36E-5 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	Yes
number of inputs	
• safety-related	0
• non-safety-related	0
number of outputs for testing contact-based sensors	0
number of outputs as contact-affected switching element safety-related	
• 1-channel	8
• 2-channel	0
number of outputs as contact-less semiconductor switching element	
• safety-related 2-channel	0
• non-safety-related	0
switching capacity current of the NO contacts of the relay outputs at DC-13	
• at 24 V	1 A
• at 230 V	0.1 A
switching capacity current of the NO contacts of the relay outputs at AC-15	
• at 24 V	2 A
• at 230 V	2 A
type of voltage	DC
control supply voltage 1 at DC rated value	24 V
mounting position	vertical
fastening method	DIN rail
height	111 mm
width	45 mm
depth	124 mm
type of electrical connection	screw terminal

Approvals Certificates	
General Product Approval	EMV



Functional Safety	Test Certificates	other
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[Miscellaneous](#)

[Type Examination Certificate](#)

[Type Examination Certificate](#)

[Type Test Certificates/Test Report](#)

[Confirmation](#)



Environment

[Environmental Confirmations](#)

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=3RK3251-1AA10>

Cax online generator

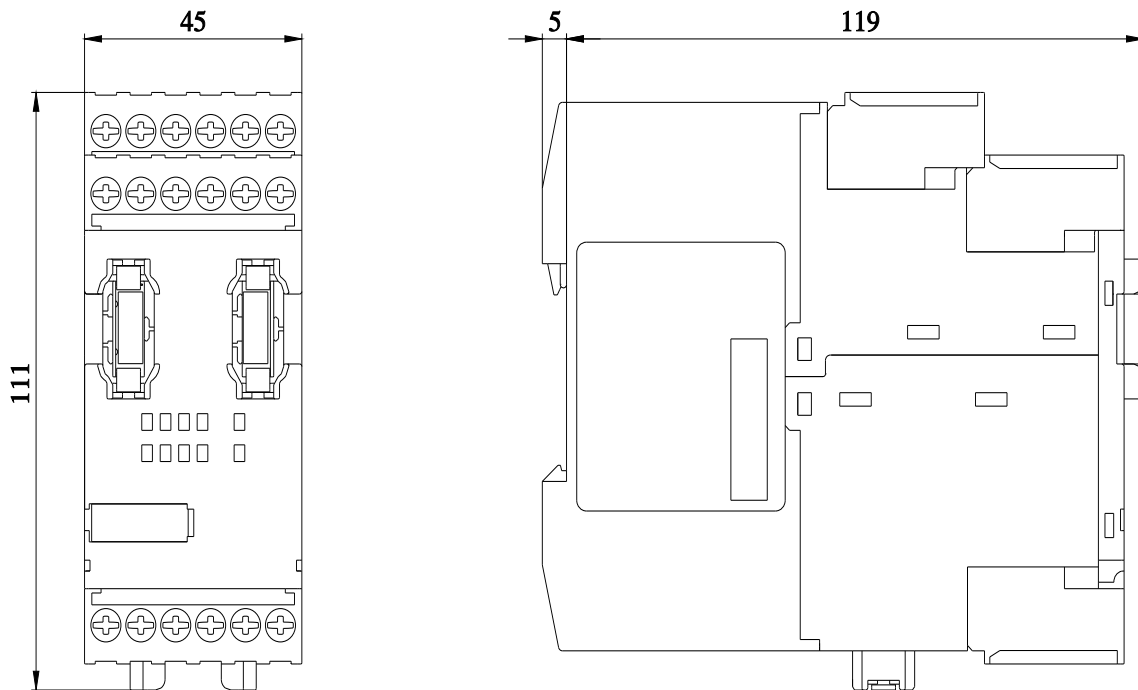
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK3251-1AA10>

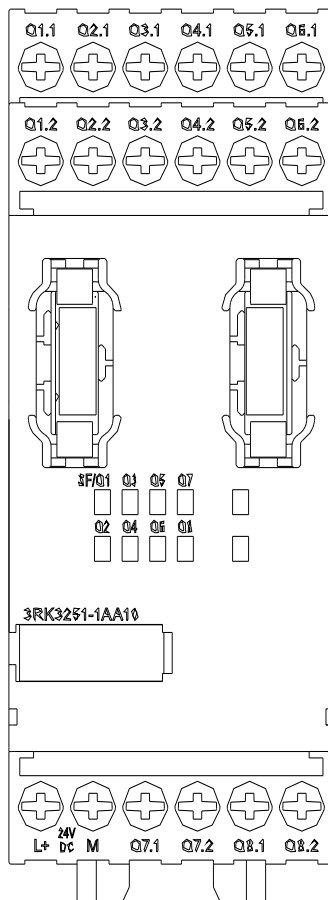
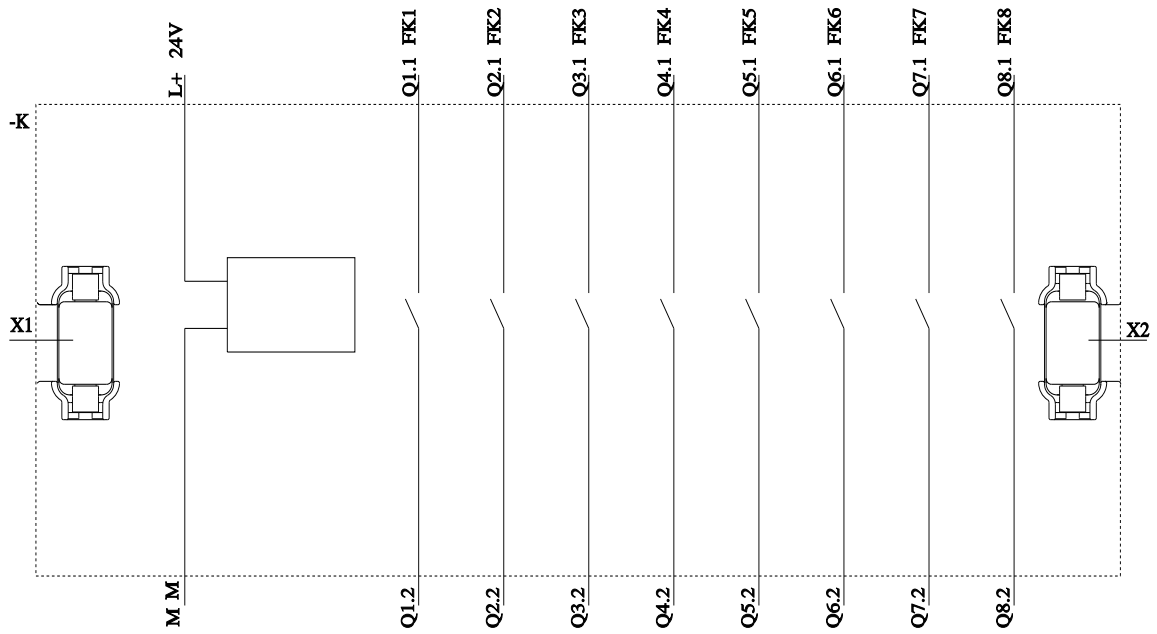
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RK3251-1AA10>

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

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK3251-1AA10&lang=en





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