



SIRIUS, CENTRAL MOD. 3RK3 BASIC FOR MODULAR SAFETY SYSTEM 3RK3 4/8 F-DI, 1 F-RO, 1 F-DO, 24V DC PARAMETERIZABLE VIA SW MSS ES 45MM WIDE SPRING-LOADED TERMINAL UP TO SIL3 (IEC 61508) UP TO PERFORMANCE LEVEL E (ISO 13849-1)

General technical data:		
product brand name		SIRIUS
Product designation		Modular Safety System 3RK3
Design of the product		central module - basic
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 operation	°C	-20 ... +60
• during storage	°C	-40 ... +85
• during transport	°C	-40 ... +85
Relative humidity during operation	%	95 ... 10
Conducted interference due to burst acc. to IEC 61000-4-4		2 kV (power ports) / 1 kV (signal 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-bound parasitic coupling acc. to IEC 61000-4-3		10 V/m
Surge voltage resistance Rated value	V	2 500
Insulation voltage Rated value	V	300
Equipment marking acc. to DIN EN 61346-2		K

<b>Product function</b>		
• EMERGENCY STOP function		Yes
• protective door monitoring		Yes
• protective door monitoring with tumbler		No
• muting, 2 sensor-parallel		No
• muting, 4 sensor-parallel		No
• muting, 4 sensor-sequential		No
• Monitoring parameterizable		No
• 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
<b>Protocol optional is supported PROFIBUS DP protocol</b>		Yes
• Note		when using the DP interface module; 32 bit cyclical data

#### Control circuit/ Control:

<b>Type of voltage</b>		DC
<b>Control supply voltage 1 for DC Rated value</b>	V	24

#### Auxiliary circuit:

<b>Product function</b>		
• Parameterizable inputs		Yes
• Parameterizable outputs		Yes
<b>Number of inputs</b>		
• safety-related		8
• non-safety-related		0
<b>Number of outputs</b>		
• as contact-affected switching element safety-related		
— 1-channel		0
— 2-channel		1
• as contact-less semiconductor switching element		
— safety-related 2-channel		1
— non-safety-related 2-channel		0
• for testing contact-based sensors		2

#### Short-circuit:

#### Installation/ mounting/ dimensions:

Mounting type		Snap-mounted to DIN rail or screw-mounted with additional push-in lug
Width	mm	45
Height	mm	113
Depth	mm	124







#### Connections/ Terminals:

Product function removable terminal for auxiliary and control circuit		Yes
Type of electrical connection for auxiliary and control current circuit		spring-loaded terminals

#### Safety related data:

Safety Integrity Level (SIL) acc. to IEC 61508		SIL CL 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	0.0000000051
T1 value for proof test interval or service life acc. to IEC 61508	y	20
Stop category acc. to DIN EN 60204-1		0 / 1
Protection against electrical shock		finger-safe
Contact reliability		one incorrect switching operation of 100 million switching operations (17 V, 1 mA)

#### Certificates/ approvals:

General Product Approval	EMC
 CCC	 CSA
 GOST	 UL
	
 C-TICK	

Functional Safety/Safety of Machinery	Test Certificates	other
<a href="#">Type Examination Certificate</a>	<a href="#">Special Test Certificate</a>	<a href="#">Confirmation</a>
<a href="#">other</a>	<a href="#">Declaration of Conformity</a>	<a href="#">Environmental Confirmations</a>

#### other



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#### Further information

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

<http://www.siemens.com/industrial-controls/catalogs>

##### Industry Mall (Online ordering system)

<http://www.siemens.com/industrymall>

##### Cax online generator

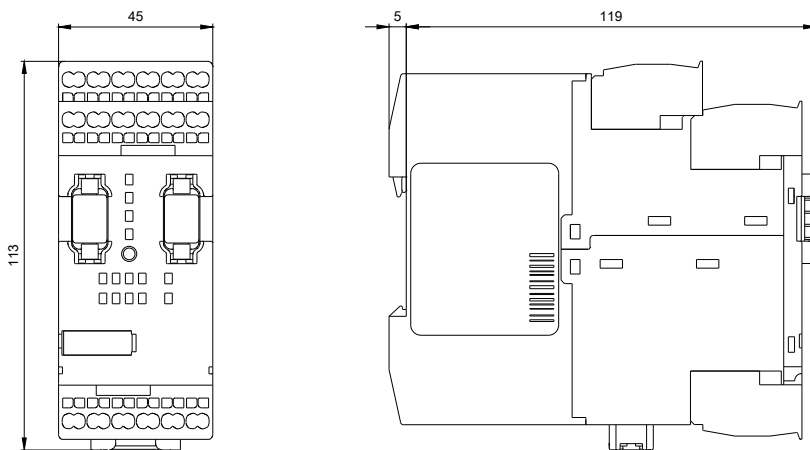
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK31112AA10>

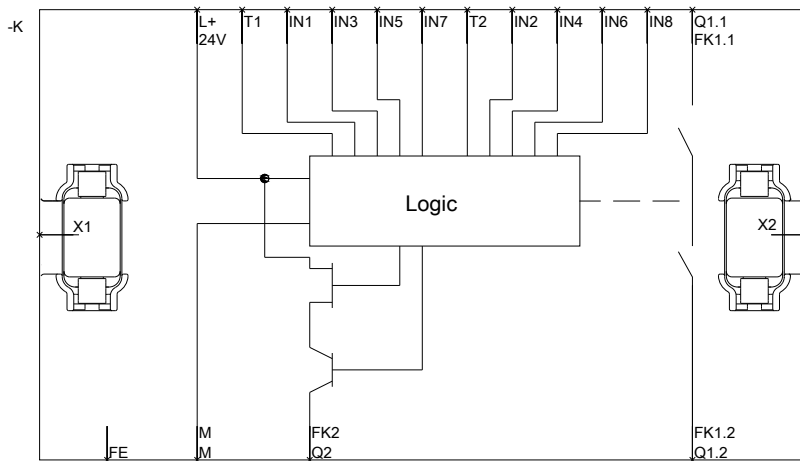
##### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RK31112AA10/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK31112AA10&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK31112AA10&lang=en)





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