

STARTER PACKAGE FOR MODULAR SAFETY SYSTEM 3RK3 CONTENT: CENTRAL MODULE MSS ADVANCED, CONNECTION: SCREW TERMINAL SOFTWARE MODULAR SAFETY SYSTEM ES 2008 PREMIUM, USB PC-CABLE

General technical data:		
product brand name		SIRIUS
Product designation		Modular Safety System 3RK3
Design of the product		Central module - Advanced
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
Product function		
• EMERGENCY STOP function		Yes
• protective door monitoring		Yes
• protective door monitoring with tumbler		Yes
• muting, 2 sensor-parallel		Yes
• muting, 4 sensor-parallel		Yes
• muting, 4 sensor-sequential		Yes
• Monitoring parameterizable		Yes

<ul style="list-style-type: none"> <li>• evaluation: electro-sensitive protective equipment</li> <li>• evaluation: selector switch</li> <li>• Pressure-sensitive mat monitoring</li> <li>• evaluation: two-hand operator panel</li> <li>• evaluation: enabling switch</li> <li>• monitored start-up</li> </ul>	Yes
<b>Protocol optional is supported PROFIBUS DP protocol</b> <ul style="list-style-type: none"> <li>• Note</li> </ul>	Yes  when using the DP interface module; 64 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>		
<ul style="list-style-type: none"> <li>• Parameterizable inputs</li> <li>• Parameterizable outputs</li> </ul>		Yes Yes
<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>— 1-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 1  1 0 2

#### Short-circuit:

#### Installation/ mounting/ dimensions:

<b>Mounting type</b>		Snap-mounted to DIN rail or screw-mounted with additional push-in lug
<b>Width</b>	mm	45
<b>Height</b>	mm	111
<b>Depth</b>	mm	124

#### Connections/ Terminals:

<b>Product function removable terminal for auxiliary and control circuit</b>		Yes
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#### 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	0.0000000028
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	Functional Safety/Safety of Machinery	Test Certificates	other
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[other](#)

[Special Test Certificate](#)

[Environmental Confirmations](#)

[Confirmation](#)

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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=3RK39221AC10>

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

<http://support.automation.siemens.com/WW/view/en/3RK39221AC10/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=3RK39221AC10&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK39221AC10&lang=en)

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