

Starter package for modular Safety system 3RK3 Content: Central unit MSS  
Advanced connection: Screw terminal Software Safety ES V1.0 Premium, USB PC cable

<b>product brand name</b>	SIRIUS
<b>product category</b>	Modular Safety System
<b>product designation</b>	Starter kit
<b>suitability for use for monitoring of optoelectronic protective devices according to IEC 61496-1</b>	Yes
<b>suitability for use</b>	
• monitoring of floating sensors	Yes
• monitoring of non-floating sensors	Yes
• position switch monitoring	Yes
• EMERGENCY-OFF circuit monitoring	Yes
• valve monitoring	Yes
• opto-electronic protection device monitoring	Yes
• proximity switch monitoring	Yes
• safety-related circuits	Yes
<b>General technical data</b>	
<b>product function</b>	
• 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
• 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
• two-hand control according to EN 574	Yes
<b>number of function blocks typical</b>	300
<b>insulation voltage rated value</b>	300 V
<b>degree of pollution</b>	3
<b>surge voltage resistance rated value</b>	2 500 V
consumed current for rated value of supply voltage	1.685 A
<b>protection class IP</b>	
• of the enclosure	IP20
• of the terminal	IP20
<b>shock resistance</b>	15g / 11 ms
<b>vibration resistance according to IEC 60068-2-6</b>	5 ... 500 Hz: 0.75 mm
<b>operating frequency maximum</b>	1 000 1/h
<b>mechanical service life (operating cycles) typical</b>	10 000 000
<b>reference code according to IEC 81346-2</b>	K
<b>Substance Prohibittance (Date)</b>	07/01/2006
<b>SVHC substance name</b>	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'-methylenedi-p-cresol - 119-47-1 Diboron trioxide - 1303-86-2
<b>Net Weight</b>	0.81 kg

product function suitable for AS-i Power24V	Yes
product function diagnostics with CTT2 device	Yes
number of safe signals for remote shutdown or cross traffic by means of AS-interface	12
consumed current from profile conductors of the AS-Interface <ul style="list-style-type: none"> <li>at 30 V maximum</li> <li>at 24 V with AS-i Power24V maximum</li> </ul>	45 mA 45 mA
<b>Ambient conditions</b>	
installation altitude at height above sea level maximum	2 000 m
ambient temperature <ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> <li>during transport</li> </ul>	-20 ... +60 °C -40 ... +85 °C -40 ... +85 °C
air pressure according to SN 31205	70 ... 106 kPa
<b>Electromagnetic compatibility</b>	
installation environment regarding EMC	This product is suitable for Class A environments only. In household environments, this device can cause unwanted radio interference. The user is required to implement appropriate measures in this case.
conducted interference <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>	2 kV (power ports) / 1 kV (signal ports) 2 kV 1 kV
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
<b>Safety related data</b>	
diagnostics test interval by internal test function maximum	1 000 s
stop category according to IEC 60204-1	0 / 1
category according to EN 954-1	4
<b>IEC 62061</b>	
SIL Claim Limit (subsystem) according to EN 62061	Kat. 4 / SIL3 / Ple
Safety Integrity Level (SIL) <ul style="list-style-type: none"> <li>according to IEC 62061</li> </ul>	SIL 3
PFHD with high demand rate <ul style="list-style-type: none"> <li>according to IEC 62061</li> </ul>	1E-8 1/h
<b>ISO 13849</b>	
performance level (PL) according to EN ISO 13849-1	e
category according to EN ISO 13849-1	4
performance level (PL) <ul style="list-style-type: none"> <li>according to ISO 13849-1</li> </ul>	PL e
<b>IEC 61508</b>	
Safety Integrity Level (SIL) <ul style="list-style-type: none"> <li>according to IEC 61508</li> </ul>	3
hardware fault tolerance <ul style="list-style-type: none"> <li>according to IEC 61508</li> </ul>	1
T1 value <ul style="list-style-type: none"> <li>for proof test interval or service life according to IEC 61508</li> </ul>	20 a
<b>Electrical Safety</b>	
touch protection against electrical shock	finger-safe
<b>Short-circuit protection</b>	
design of the fuse link for short-circuit protection of the NO contacts of the relay outputs required	NH Type 3NA, DIAZED Type 5SB, NEOZED Type 5SE
<b>Inputs/ Outputs</b>	
product function <ul style="list-style-type: none"> <li>parameterizable inputs</li> <li>parameterizable outputs</li> </ul>	Yes Yes
number of inputs <ul style="list-style-type: none"> <li>safety-related</li> <li>non-safety-related</li> </ul>	8 0

input delay time	0 ... 150 ms			
ingress aquisition time at digital input maximum	60 ms			
input delay time at digital input maximum	150 ms			
number of outputs <ul style="list-style-type: none"><li>• safety-related 2-channel</li><li>• for testing contact-based sensors</li></ul>	2 2			
number of outputs as contact-affected switching element safety-related <ul style="list-style-type: none"><li>• 1-channel</li><li>• 2-channel</li></ul>	0 1			
number of outputs as contact-less semiconductor switching element <ul style="list-style-type: none"><li>• safety-related 2-channel</li><li>• non-safety-related</li></ul>	1 0			
design of the contactless switching element safety-related	P potential			
pulse duration of the contactless semiconductor contact block for switching off safety-related maximum	1 ms			
recovery time of the safe outputs	420 ms			
dark period of the common drivers	1 ms			
switching capacity current of semiconductor outputs at DC-13 at 24 V	1.5 A			
Communication/ Protocol				
protocol optional is supported <ul style="list-style-type: none"><li>• PROFIBUS DP protocol</li></ul>	Yes; when using the DP interface module; 64 bit cyclical data			
protocol is supported AS-Interface protocol	Yes			
Control circuit/ Control				
type of voltage	DC			
operating range factor control supply voltage rated value at DC <ul style="list-style-type: none"><li>• initial value</li><li>• full-scale value</li></ul>	0.85 1.15			
inrush current peak <ul style="list-style-type: none"><li>• at 24 V</li></ul>	70 A			
duration of inrush current peak <ul style="list-style-type: none"><li>• at 24 V</li></ul>	1 ms			
operating power rated value	4.5 W			
Installation/ mounting/ dimensions				
mounting position	vertical			
fastening method	Snap-mounted to DIN rail or screw-mounted with additional push-in lug			
height	111 mm			
width	45 mm			
depth	124 mm			
Connections/ Terminals				
product function removable terminal	Yes			
type of electrical connection	screw terminal			
type of connectable conductor cross-sections <ul style="list-style-type: none"><li>• solid</li><li>• finely stranded with core end processing</li><li>• for AWG cables solid</li><li>• for AWG cables stranded</li></ul>	1x (0.5 ... 4.0mm²), 2x (0.5 ... 2.5 mm²) 1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.5 mm²) 2x (20 ... 14) 2x (20 ... 14)			
connectable conductor cross-section finely stranded with core end processing	0.5 ... 2.5 mm²			
AWG number as coded connectable conductor cross section <ul style="list-style-type: none"><li>• solid</li><li>• stranded</li></ul>	20 ... 14 20 ... 14			
DC resistance of the cable maximum	100 Ω			
Approvals Certificates				
Environment	General Product Ap- proval	Functional Saftey	Test Certificates	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=3RK3922-1AC10>

**Cax online generator**

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK3922-1AC10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK3922-1AC10>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK3922-1AC10&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK3922-1AC10&lang=en)

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