

## Data sheet

## 3RK3922-1AC10

product brand name	SIRIUS
product category	Modular Safety System
product designation	Starter kit
suitability for use for monitoring of optoelectronic protective devices according to IEC 61496-1	Yes
suitability for use	
• 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>	
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
• 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
number of function blocks typical	300
insulation voltage rated value	300 V
degree of pollution	3
surge voltage resistance rated value	2 500 V
consumed current for rated value of supply voltage	1.685 A
protection class IP	
• of the enclosure	IP20
• of the terminal	IP20
shock resistance	15g / 11 ms
vibration resistance according to IEC 60068-2-6	5 ... 500 Hz: 0.75 mm
operating frequency maximum	1 000 1/h
mechanical service life (operating cycles) typical	10 000 000
reference code according to IEC 81346-2	K
Substance Prohibitance (Date)	07/01/2006
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'-methylenedi-p-cresol - 119-47-1 Diboron trioxide - 1303-86-2
Net Weight	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	
• at 30 V maximum	45 mA
• at 24 V with AS-i Power24V maximum	45 mA
<b>Ambient conditions</b>	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
• during operation	-20 ... +60 °C
• during storage	-40 ... +85 °C
• during transport	-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	
• due to burst according to IEC 61000-4-4	2 kV (power ports) / 1 kV (signal 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
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
IEC 62061	
SIL Claim Limit (subsystem) according to EN 62061	Kat. 4 / SIL3 / PlE
Safety Integrity Level (SIL)	
• according to IEC 62061	SIL 3
PFHD with high demand rate	
• according to IEC 62061	1E-8 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
hardware fault tolerance	
• according to IEC 61508	1
T1 value	
• for proof test interval or service life according to IEC 61508	20 a
Electrical Safety	
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	
• parameterizable inputs	Yes
• parameterizable outputs	Yes
number of inputs	
• safety-related	8
• non-safety-related	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				
• safety-related 2-channel	2			
• for testing contact-based sensors	2			
number of outputs as contact-affected switching element safety-related				
• 1-channel	0			
• 2-channel	1			
number of outputs as contact-less semiconductor switching element				
• safety-related 2-channel	1			
• non-safety-related	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			
<b>Communication/ Protocol</b>				
protocol optional is supported				
• PROFIBUS DP protocol	Yes; when using the DP interface module; 64 bit cyclical data			
protocol is supported AS-Interface protocol	Yes			
<b>Control circuit/ Control</b>				
type of voltage	DC			
operating range factor control supply voltage rated value at DC				
• initial value	0.85			
• full-scale value	1.15			
inrush current peak				
• at 24 V	70 A			
duration of inrush current peak				
• at 24 V	1 ms			
operating power rated value	4.5 W			
<b>Installation/ mounting/ dimensions</b>				
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			
<b>Connections/ Terminals</b>				
product function removable terminal	Yes			
type of electrical connection	screw terminal			
type of connectable conductor cross-sections				
• solid	1x (0.5 ... 4.0mm <sup>2</sup> ), 2x (0.5 ... 2.5 mm <sup>2</sup> )			
• finely stranded with core end processing	1x (0.5 ... 2.5 mm <sup>2</sup> ), 2x (0.5 ... 1.5 mm <sup>2</sup> )			
• for AWG cables solid	2x (20 ... 14)			
• for AWG cables stranded	2x (20 ... 14)			
connectable conductor cross-section finely stranded with core end processing	0.5 ... 2.5 mm <sup>2</sup>			
AWG number as coded connectable conductor cross section				
• solid	20 ... 14			
• stranded	20 ... 14			
DC resistance of the cable maximum	100 Ω			
<b>Approvals Certificates</b>				
Environment	General Product Approval	Functional Safety	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)**last modified:**11/21/2025 