SIEMENS

Data sheet

3RK3922-1AC10

	Starter package for modular Safety system 3RK3 Content: Central unit MSS Advanced connection: Screw terminal Software Safety ES V1.0 Premium, USB PC cable			
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			
General technical data				
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: electro-sensitive protective equipment evaluation: selector switch	Yes			
	Yes			
pressure-sensitive mat monitoring	Yes			
 evaluation: two-hand operator panel evaluation: enabling switch 	Yes			
	Yes			
monitored start-up	Yes			
two-hand control according to EN 574				
number of function blocks typical	300 300 V			
insulation voltage rated value	3			
degree of pollution surge voltage resistance rated value	2 500 V			
	1.685 A			
consumed current for rated value of supply voltage	1.000 A			
protection class IP	1020			
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 Diboron trioxide - 1303-86-2			
Weight	0.81 kg			
product function suitable for AS-i Power24V	Yes			
product function diagnostics with CTT2 slave	Yes			
number of safe signals for remote shutdown or cross traffic	12			

by means of AS-interface				
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			
Ambient conditions				
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			
Electromagnetic compatibility				
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			
Safety related data				
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	7E-9 1/h			
ISO 13849				
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				
T1 value for proof test interval or service life according to IEC	SIL CL 3 20 a			
61508	20 a			
Electrical Safety	· · ·			
touch protection against electrical shock	finger-safe			
Short-circuit protection				
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			
Inputs/ Outputs				
product function				
parameterizable inputs	Yes			
parameterizable outputs	Yes			
number of inputs	0			
safety-related	8			
non-safety-related	0 0 150 ms			
input delay time	0 150 ms			
ingress aquisition time at digital input maximum	60 ms 150 ms			
_ input delay time at digital input maximum 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	1			
switching element				

General Product Approval						
	Functional Saf	itey	Test Certificates	other	Environment	
Approvals Certificates						
DC resistance of the cable maximum		100 Ω				
• stranded		20 14				
• solid		20 14				
section						
AWG number as coded connectable conducto	or cross					
connectable conductor cross-section finely stranded with core end processing		0.5 2.5 mm²				
	for AWG cables stranded		2x (20 14)			
	 for AWG cables solid 		2x (20 14)			
finely stranded with core end processing		1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)				
• solid		1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²)				
type of connectable conductor cross-sections	í					
type of electrical connection		screw	terminal			
product function removable terminal		Yes				
Connections/ Terminals						
depth		124 m	im			
width		45 mn	45 mm			
height		111 m	ım			
fastening method		Snap-mounted to DIN rail or screw-mounted with additional push-in lug				
mounting position		vertica	al			
Installation/ mounting/ dimensions						
operating power rated value		4.5 W				
• at 24 V		1 ms				
duration of inrush current peak						
• at 24 V		70 A				
inrush current peak						
control supply voltage rated value		24 V				
type of voltage		DC				
Control circuit/ Control						
protocol is supported AS-Interface protocol		Yes				
PROFIBUS DP protocol		Yes: v	vhen using the DP interfa	ace module: 64 bit cyclica	l data	
protocol optional is supported						
24 V Communication/ Protocol						
switching capacity current of semiconductor output	uts at DC-13 at	1.5 A				
dark period of the common drivers		1 ms				
recovery time of the safe outputs		420 m	IS			
pulse duration of the contactless semiconduc block for switching off safety-related maximur	tor contact	1 ms				
design of the contactless switching element s	afety-related	P potential				
non-safety-related		0				
 safety-related 2-channel 		1				

Further information	
Information on the pack https://support.industry.sie	ang nens.com/cs/ww/en/view/109813875
Information- and Downlo	dcenter (Catalogs, Brochures,) 10
Industry Mall (Online or https://mall.industry.sieme	r <mark>ing system)</mark> s.com/mall/en/en/Catalog/product?mlfb=3RK3922-1AC10
Cax online generator http://support.automation.	emens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK3922-1AC10
	s, Certificates, Characteristics, FAQs,) hens.com/cs/ww/en/ps/3RK3922-1AC10
	images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) ens.com/bilddb/cax_de.aspx?mlfb=3RK3922-1AC10⟨=en

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