SIEMENS

Data sheet

3SK1121-2CB41



SIRIUS SAFETY RELAY BASIC UNIT ADVANCED SERIES WITH TIME DELAY 0.05-3S RELAY ENABLING CIRCUITS 2 INSTANTANEOUS NO CONTACTS 2 DELAYED NO CONTACTS US = 24 V DC SPRING-LOADED TERMINAL

Figure similar

General technical data:		
product brand name		SIRIUS
Product designation	-	safety relays
Design of the product		For autonomous safety applications
Protection class IP of the enclosure		IP20
Protection against electrical shock		finger-safe
Insulation voltage Rated value	V	300
Ambient temperature	-	
 during storage 	°C	-40 +80
 during operation 	°C	-25 +60
Air pressure acc. to SN 31205	kPa	90 106
Relative humidity during operation	%	10 95
Installation altitude at height above sea level	m	2 000
maximum		
Vibration resistance acc. to IEC 60068-2-6		5 500 Hz: 0,75 mm
Shock resistance		10g / 11 ms
Surge voltage resistance Rated value	V	4 000
EMC emitted interference		IEC 60947-5-1, Class A
Installation environment regarding EMC		This product is suitable for Class A environments only. It can cause undesired radio-frequency interference in residential environments. If this is the case, the user must take appropriate measures.
Overvoltage category		Installation category III
Degree of pollution		3
Number of sensor inputs 1-channel or 2-channel		1
Design of the cascading		yes

Type of the safety-related wiring of the inputs		single-channel and two-channel
Product property cross-circuit-proof		Yes
Safety Integrity Level (SIL)	_	
• acc. to IEC 61508		SIL3
 for delayed release circuit acc. to IEC 61508 		SIL3
Performance level (PL)	-	
• acc. to EN ISO 13849-1		е
 for delayed release circuit acc. to EN ISO 13849-1 		е
Category acc. to EN ISO 13849-1		4
Safe failure fraction (SFF)	%	99
PFHD with high demand rate acc. to EN 62061	1/h	0.000000037
Average probability of failure on demand (PFDavg) with low demand rate acc. to IEC 61508	1/y	0.000007
T1 value for proof test interval or service life acc. to IEC 61508	У	20
Hardware fault tolerance acc. to IEC 61508	-	1
Safety device type acc. to IEC 61508-2	_	Туре В
Number of outputs as contact-affected switching element	_	
• as NC contact		
 for signaling function instantaneous contact 		0
— for signaling function delayed switching		0
— safety-related instantaneous contact		0
— safety-related delayed switching		0
 as NO contact 		
 for signaling function instantaneous contact 		0
— for signaling function delayed switching		0
— safety-related instantaneous contact		2
— safety-related delayed switching		2
Number of outputs as contact-less semiconductor switching element		
 safety-related 		
— delayed switching		0
— instantaneous contact		0
 for signaling function instantaneous contact 		0
Stop category acc. to DIN EN 60204-1		0 / 1
General technical data:		
Design of input		
 cascading input/functional switching 		Yes
 feedback input 		Yes

Start input		Yes
Type of electrical connection Plug-in socket		No
Operating frequency maximum	1/h	360
Switching capacity current	-	
 of the NO contacts of the relay outputs 		
— at DC-13		
— at 24 V	А	3
— at 115 V	А	0.2
— at 230 V	А	0.1
— at AC-15		
— at 115 V	А	3
— at 230 V	А	3
Thermal current of the switching element with	A	5
contacts maximum		
Operating current at 17 V minimum	mA	5
Mechanical service life (switching cycles) typical	-	10 000 000
Design of the fuse link for short-circuit protection of	-	gL/gG: 6A or circuit breaker type A: 3A or circuit
the NO contacts of the relay outputs required		breaker type B: 2A or circuit breaker type C: 1A
Cable length		
• with Cu 1.5 mm ² and 150 nF/km per sensor	m	4 000
circuit maximum		
Make time with automatic start		440
• for DC maximum	ms	110
Make time with automatic start after power failure		
• typical	ms	6 500
• maximum	ms	6 500
Make time with monitored start		
● maximum	ms	110
Backslide delay time after opening of the safety circuits typical	ms	40
Backslide delay time in the event of power failure		
• typical	ms	30
• maximum	ms	40
Adjustable OFF-delay time after opening of the safety circuits		0.05 3
Recovery time after opening of the safety circuits typical	ms	30
Recovery time after power failure typical	S	6.5
Pulse duration		
 of the sensor input minimum 	ms	75
 of the ON pushbutton input minimum 	S	0.15
Control circuit/ Control:		
Type of voltage of the control supply voltage		DC

• for DC V 24 Operating range factor control supply voltage rated value of the magnet coil 0.81.2 Active power loss typical W 2.5 mounting position any Required spacing for grounded parts at the side mm 5 Required spacing for grounded parts at the side mm 0 Mounting type screw and snap-on mounting Width mm 100 Dept connections/ Terminals: mm 100 Type of factrical connection spring-loaded terminals Type of connectable conductor cross-section spring-loaded terminals • solid tx (0.5 1.5 mm ²), 2x (0.5 1.5 mm ²) • inely stranded tx (0.5 1.5 mm ²), 2x (0.5 1.5 mm ²) • with core end processing tx (0.5 1.5 mm ²), 2x (0.5 1.5 mm ²) • with core end processing tx (2016), 2x (2016) • with core end processing tx (2016), 2x (2016) • with core end processing tx (2016), 2x (2016) • stranded tx (2016), 2x (2016) Product function parameterizable Sensor floating / sensor non-floating, annotored st	Control supply voltage	_	
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AWG conductorsImage: solidImage: solid• solid1x (20 16), 2x (20 16)• stranded1x (20 16), 2x (20 16)Product Function:Product function parameterizableSensor floating / sensor non-floating, monitored start / autostart, 1-channel / 2-channel sensor connection, cross-circuit detection, startup testing, antivalent sensors, 2-hand switches, time delaySuitability for operation Device connector 3ZY12YesSuitability for interaction press controlYesSuitability for useYes• safety switchYes• Monitoring of floating sensorsYes• Monitoring of non-floating sensorsYes• magnetically operated switch monitoring • safety-related circuitsYes	 — without core end processing 		1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)
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Product Function: Sensor floating / sensor non-floating, monitored start / autostart, 1-channel / 2-channel sensor connection, cross-circuit detection, startup testing, antivalent sensors, 2-hand switches, time delay Suitability for operation Device connector 3ZY12 Yes Suitability for interaction press control Yes Suitability for use Yes • safety switch Yes • Monitoring of floating sensors Yes • magnetically operated switch monitoring Yes • safety-related circuits Yes	• solid		
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Suitability for interaction press controlYesSuitability for useYes• safety switchYes• Monitoring of floating sensorsYes• Monitoring of non-floating sensorsYes• magnetically operated switch monitoringYes• safety-related circuitsYes	Product function parameterizable		/ autostart, 1-channel / 2-channel sensor connection, cross-circuit detection, startup testing, antivalent
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• safety switchYes• Monitoring of floating sensorsYes• Monitoring of non-floating sensorsYes• magnetically operated switch monitoringYes• safety-related circuitsYes	Suitability for interaction press control		Yes
 Monitoring of floating sensors Monitoring of non-floating sensors Monitoring of non-floating sensors magnetically operated switch monitoring safety-related circuits Yes 	Suitability for use		
 Monitoring of non-floating sensors magnetically operated switch monitoring safety-related circuits Yes 	 safety switch 		Yes
 magnetically operated switch monitoring safety-related circuits Yes 	 Monitoring of floating sensors 		Yes
safety-related circuits Yes	 Monitoring of non-floating sensors 		Yes
	 magnetically operated switch monitoring 		Yes
Certificates/ approvals:	 safety-related circuits 		Yes
	Certificates/ approvals:		

General Prod	uct Approval	EMC	Functional Safety/Safety of Machinery	Declaration of Conformity
	CSA	С-ТІСК	Type Examination	EG-Konf.

Test	other
Certificates	
Type Test	Confirmation
Certificates/Test	
Report	

Further information

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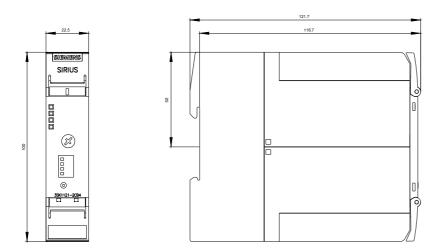
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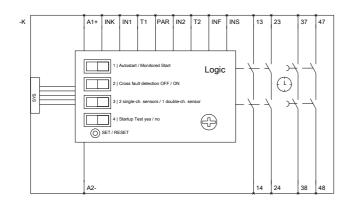
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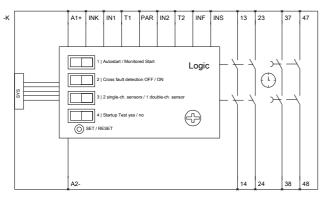
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3SK11212CB41/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3SK11212CB41&lang=en







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