# **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	-	
<ul> <li>during storage</li> </ul>	°C	-40 +80
<ul> <li>during operation</li> </ul>	°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
<ul> <li>for delayed release circuit acc. to IEC 61508</li> </ul>		SIL3
Performance level (PL)	-	
• acc. to EN ISO 13849-1		е
<ul> <li>for delayed release circuit acc. to EN ISO 13849-1</li> </ul>		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		
<ul> <li>for signaling function instantaneous contact</li> </ul>		0
— for signaling function delayed switching		0
— safety-related instantaneous contact		0
— safety-related delayed switching		0
<ul> <li>as NO contact</li> </ul>		
<ul> <li>for signaling function instantaneous contact</li> </ul>		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		
<ul> <li>safety-related</li> </ul>		
— delayed switching		0
— instantaneous contact		0
<ul> <li>for signaling function instantaneous contact</li> </ul>		0
Stop category acc. to DIN EN 60204-1		0 / 1
General technical data:		
Design of input		
<ul> <li>cascading input/functional switching</li> </ul>		Yes
<ul> <li>feedback input</li> </ul>		Yes

Start input		Yes
Type of electrical connection Plug-in socket		No
Operating frequency maximum	1/h	360
Switching capacity current	-	
<ul> <li>of the NO contacts of the relay outputs</li> </ul>		
— 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 <sup>2</sup> 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		
<ul> <li>of the sensor input minimum</li> </ul>	ms	75
<ul> <li>of the ON pushbutton input minimum</li> </ul>	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 <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )           • inely stranded         tx (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )           • with core end processing         tx (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )           • 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	_	
Rated valueV24Operating range factor control supply voltage rated value of the magnet coll0.81.2• or DC0.81.2Active power loss typicalW2.5Intellation/ mounting/ dimensions:anyRequired spacing for grounded parts at the side sidemm5Required spacing with side-by-side mounting at the sidemm0Withmm22.5Heightmm100Depthmm110Depthmm22.5Heightmm100Depthmm110Depthmm110Solid1x (0.51.5 mm?), 2x (0.51.5 mm?)• finely stranded • solid1x (0.51.5 mm?), 2x (0.51.5 mm?)• without core end processing • without core end processing • without core end processing • solid1x (0.51.6 mm?), 2x (0.51.5 mm?)Type of connectable conductor cross-section for AWG conductorsSensor floating / sensor non-floating, monitored statn, r autostat, 1channel / 2channel sensor connectable, sensor floating / sensor non-floating, monitored statn, r autostat, 1channel / 2channel sensor connectable, sensor floating / sensor non-floating, sensor non-floating, sensor section, sensor floating / sensor non-floating, sensor section, sensor section, starup testing, antivalent sensors, 2hand switches, time delaySultability for interaction press controlYesSultability for interaction press controlYesSultability for interaction press control			
Operating range factor control supply voltage rated value of the magnet coll       0.8 1.2         Active power loss typical       W       2.5         Installation/ mounting/ dimensions:       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       mm         Width       mm       100       mm         Mounting type       screw and snap-on mounting       mm         Vidth       mm       100       mm         Operations/ Terminals:       mm       121.6       mm         Connections/ Terminals       spring-loaded terminals       mm?       mm?         Vige of connectable conductor cross-section       spring-loaded terminals       mm?       mm?         Vige of connectable conductor cross-section or       solid       1x (0.5 1.5 mm?), 2x (0.5 1.5 mm?)       mm?         Vige of connectable conductor cross-section for       XWG conductors       screw and snap-on non-floating, monitored start, starting and switches, time delay         • solid       ix (0.5 1.5 mm?), 2x (0.5 1.5 mm?)       transcrew and transcrew a		V	24
value of the magnet coll • for DC0.8 1.2Active power loss typicalW2.5Installation/ mounting / dimensions:anyRequired spacing for grounded parts at the sidemm5Required spacing with side-by-side mounting at the sidemm0Wouthing typescrew and snap-on mountingWidthmm100Depthmm100Depthmm121.6Connectable conductor cross-section • solidspring-loaded terminalsType of electrical connectionspring-loaded terminalsType of onectable conductor cross-section • solid1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)Type of onectable conductor cross-section for AWG conductors1x (0.5 1.0 mm²), 2x (0.5 1.0 mm²)Type of connectable conductor cross-section for AWG conductorsSensor floating / sensor non-floating, monitored start / autostart, 1-channel / 2-channel sensor connection, cross-crout detection, startup lesting, antivalent sensors, 2-hand switches, time delaySuitability for interaction press controlYesSuitability for use • safety switchYes• Suitability for use • safety switchYes• Suitability for use • safety switchYes• Suitability for interaction press controlYesSuitability for use • safety switchYes• safety-related circuitsYes		_	
Active power loss typical     W     2.5       installation/ mounting/ dimensions:     any       Required spacing for grounded parts at the side     mm     5       Required spacing with side-by-side mounting at the side     mm     0       Mounting type     screw and snap-on mounting       Width     mm     100       Height     mm     121.6       Connectable conductor cross-section     spring-loaded terminals       Type of electrical connection     spring-loaded terminals       Type of connectable conductor cross-section     spring-loaded terminals       • with core end processing     1x (0.5 1.5 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )       • without core end processing     1x (0.5 1.0 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> )       Type of connectable conductor cross-section for AWG conductors     1x (20 16), 2x (20 16)       • standed     1x (20 16), 2x (20 16)       Product Function:     Sensor floating / sensor non-floating, monitored start / autostart, 1-channel / 2-channel sensor connection, cross-circuit detection, starup testing, antivalent sensors, 2-hand switches, time delay       Suitability for operation persecontrol     Yes       Suitability for nearetion press control     Yes       Suitability for interactor press control     Yes       Suitability for interactor press control     Yes       Suitability for interactor press control     Yes <td></td> <td></td> <td></td>			
Installation/ mounting/ dimensions: Installation/ mounting position Required spacing for grounded parts at the side mm S Required spacing with side-by-side mounting at the side Mounting type With Mounting type With Mounting type Type of electrical connection Sufficient of end processing with core end processing % evident stranded Sufficient Suff	• for DC		0.8 1.2
mounting position       any         Required spacing for grounded parts at the side       mm       5         Required spacing with side-by-side mounting at the side       mm       0         Mounting type       screw and snap-on mounting         Width       mm       22.5         Height       mm       100         Depth       mm       121.6         Connections/ Terminals:       spring-loaded terminals         Type of electrical connection       spring-loaded terminals         * solid       1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)         • finely stranded       - with core end processing         - with core end processing       1x (0.5 1.0 mm²), 2x (0.5 1.0 mm²)         Type of connectable conductor cross-section for       AVG conductors         • solid       1x (20 16), 2x (20 16)         • stranded       1x (20 16), 2x (20 16)         Product function parameterizable       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 interaction press control       Yes         Suitability for use       • safety switch       Yes         • Monitoring of non-floating sensors       Yes       Yes	Active power loss typical	W	2.5
Required spacing for grounded parts at the side       mm       5         Required spacing with side-by-side mounting at the side       mm       0         Mounting type       screw and snap-on mounting         Width       mm       100         Height       mm       100         Depth       mm       121.6         Connections/ Terminals:       spring-loaded terminals         Type of electrical connection       spring-loaded terminals         Type of connectable conductor cross-section       spring-loaded terminals         • solid       1x (0.5 1.5 mm <sup>3</sup> ), 2x (0.5 1.5 mm <sup>3</sup> )         • finely stranded       - with core end processing         - with core end processing       1x (0.5 1.0 mm <sup>3</sup> ), 2x (0.5 1.0 mm <sup>3</sup> )         Type of connectable conductor cross-section for       XWG conductors         • solid       1x (20 16), 2x (20 16)         • stranded       1x (20 16), 2x (20 16)         • stranded       Yes         Suitability for interaction press control       Yes         Suitability for interaction press control       Yes         Suitability for use       safety switch       Yes         • safety witch       Yes       Yes         • safety witch       Yes       Yes	Installation/ mounting/ dimensions:		
Required spacing with side-by-side mounting at the side       mm       0         Mounting type       screw and snap-on mounting         Width       mm       22.5         Height       mm       100         Depth       mm       121.6         Connectable conductor cross-section         • solid       spring-loaded terminals         Type of connectable conductor cross-section       spring-loaded terminals         • solid       1x (0.5 1.5 mm <sup>3</sup> ), 2x (0.5 1.5 mm <sup>3</sup> )         • finely stranded       1x (0.5 1.5 mm <sup>3</sup> ), 2x (0.5 1.0 mm <sup>3</sup> )         - with core end processing       1x (0.5 1.5 mm <sup>3</sup> ), 2x (0.5 1.0 mm <sup>3</sup> )         Type of connectable conductor cross-section for       XWG conductors         • solid       1x (20 16), 2x (20 16)         • stranded       1x (20 16), 2x (20 16)         Product Function       Xet (20 16), 2x (20 16)         Product Function parameterizable       Sensor floating / sensor non-floating, monitored start, 1-channel / 2-channel sensor connectator, cross-circuit detection, startup testing, antivalent sensors, 2-hand switches, time delay         Suitability for interaction press control       Yes         Suitability for use       Yes         • safety switch       Yes         • Monitoring of floating sensors	mounting position		any
side       screw and snap-on mounting         Width       mm       22.5         Height       mm       100         Depth       mm       121.6         Connections/ Terminals:         Type of electrical connection         • solid       spring-loaded terminals         • solid       1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)         • solid       1x (0.5 1.0 mm²), 2x (0.5 1.0 mm²)         • with core end processing       1x (0.5 1.0 mm²), 2x (0.5 1.0 mm²)         - with core end processing       1x (20 16), 2x (20 16)         - with core end processing       1x (20 16), 2x (20 16)         • solid       1x (20 16), 2x (20 16)         • stranded       1x (20 16), 2x (20 16)         • stranded       1x (20 16), 2x (20 16)         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 interaction press control       Yes         Monitoring of floating	Required spacing for grounded parts at the side	mm	5
Widthmm22.5Heightmm100Depthmm121.6Connections / Terminals:Type of electrical connectionspring-loaded terminalsType of connectable conductor cross-sectionspring-loaded terminals• solid1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)• finely stranded1x (0.5 1.0 mm²), 2x (0.5 1.0 mm²)- with core end processing1x (0.5 1.0 mm²), 2x (0.5 1.0 mm²)Type of connectable conductor cross-section for AWG conductors1x (20 16), 2x (20 16)• solid1x (20 16), 2x (20 16)• solid1x (20 16), 2x (20 16)• stranded1x (20 16), 2x (20 16)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 delaySuitability for operation Device connector 32Y12YesSuitability for use • safety switchYes• safety switch • Monitoring of floating sensors • Monitoring of non-floating sensors • Yes• safety-related circuitsYes		mm	0
Heightmm100Depthmm121.6Connections/ Terminals:spring-loaded terminalsType of electrical connectionsolidspring-loaded terminals• solid1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)• finely stranded	Mounting type	_	screw and snap-on mounting
Depth       mm       121.6         Connections/ Terminals:       spring-loaded terminals         Type of electrical connection       spring-loaded terminals         Type of connectable conductor cross-section       solid         • solid       1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)         • finely stranded       1x (0.5 1.0 mm²), 2x (0.5 1.0 mm²)         - with core end processing       1x (0.5 1.5 mm²), 2x (0.5 1.0 mm²)         - without core end processing       1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)         Type of connectable conductor cross-section for       AWG conductors         • solid       1x (20 16), 2x (20 16)         • stranded       1x (20 16), 2x (20 16)         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 use       • safety switch       Yes         • Monitoring of floating sensors       Yes         • Monitoring of non-floating sensors       Yes </td <td>Width</td> <td>mm</td> <td>22.5</td>	Width	mm	22.5
Connections/ Terminals:         Type of electrical connection       spring-loaded terminals         Type of connectable conductor cross-section       solid         • solid       1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)         • finely stranded       - with core end processing         - with oure end processing       1x (0.5 1.0 mm²), 2x (0.5 1.0 mm²)         - without core end processing       1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)         Type of connectable conductor cross-section for       AWG conductors         • solid       1x (20 16), 2x (20 16)         • stranded       1x (20 16), 2x (20 16)         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 use       safety switch         • safety switch       Yes         • Monitoring of floating sensors       Yes         • Monitoring of non-floating sensors       Yes         • Monitoring of non-floating sensors       Yes         • safety switch       Yes         • Monitoring of non-floating sensors       Yes         • magnetically operated switch monitoring       Yes	Height	mm	100
Type of electrical connection       spring-loaded terminals         Type of connectable conductor cross-section       isolid         • solid       1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)         • finely stranded	Depth	mm	121.6
Type of connectable conductor cross-section1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)• solid1x (0.5 1.0 mm²), 2x (0.5 1.0 mm²)• with core end processing1x (0.5 1.0 mm²), 2x (0.5 1.0 mm²)- with out core end processing1x (0.5 1.0 mm²), 2x (0.5 1.0 mm²)Type of connectable conductor cross-section for AWG conductors1x (20 16), 2x (20 16)• solid1x (20 16), 2x (20 16)• stranded1x (20 16), 2x (20 16)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 delaySuitability for operation Device connector 3ZY12YesSuitability for use • safety switchYes• Monitoring of floating sensors • Monitoring of non-floating sensors • magnetically operated switch monitoring • safety-related circuitsYes	Connections/ Terminals:	_	
<ul> <li>solid</li> <li>finely stranded</li> <li>with core end processing</li> <li>without core end processing</li> <li>without core end processing</li> <li>1x (0.5 1.5 mm<sup>3</sup>), 2x (0.5 1.0 mm<sup>3</sup>)</li> <li>1x (0.5 1.0 mm<sup>3</sup>), 2x (0.5 1.0 mm<sup>3</sup>)</li> <li>1x (0.5 1.5 mm<sup>3</sup>), 2x (0.5 1.0 mm<sup>3</sup>)</li> <li>1x (0.5 1.0 mm<sup>3</sup>), 2x (0.5 1.0 mm<sup>3</sup>)</li> <li>1x (0</li></ul>			spring-loaded terminals
• finely strandedImage: stranded- with core end processing1x (0.5 1.0 mm²), 2x (0.5 1.0 mm²)- without core end processing1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)Type of connectable conductor cross-section for AWG conductors1x (20 16), 2x (20 16)• solid1x (20 16), 2x (20 16)• stranded1x (20 16), 2x (20 16)• strandedYes• subility for operation parameterizableYes• Suitability for operation Device connector 3ZY12Yes• Suitability for useYes• safety switchYes• Monitoring of floating sensorsYes• Monitoring of non-floating sensorsYes• Monitoring of non-floating sensorsYes• magnetically operated switch monitoringYes• safety-related circuitsY	Type of connectable conductor cross-section		
with core end processing1x (0.5 1.0 mm²), 2x (0.5 1.0 mm²) without core end processing1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)Type of connectable conductor cross-section for AWG conductors1x (20 16), 2x (20 16)• solid1x (20 16), 2x (20 16)• stranded1x (20 16), 2x (20 16)Product Function:	• solid		1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)
without core end processing1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)Type of connectable conductor cross-section for AWG conductors • solid • stranded1x (20 16), 2x (20 16)Product Function:1x (20 16), 2x (20 16)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 use • safety switchYes• Monitoring of floating sensors • Monitoring of non-floating sensors • magnetically operated switch monitoring • safety-related circuitsYes	<ul> <li>finely stranded</li> </ul>		
Type of connectable conductor cross-section for AWG conductorsIn (20 16), 2x (20 16)• solid1x (20 16), 2x (20 16)• stranded1x (20 16), 2x (20 16)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 delaySuitability for operation Device connector 3ZY12YesSuitability for use • safety switchYes• Monitoring of floating sensors • Monitoring of non-floating sensors • magnetically operated switch monitoring • safety-related circuitsYes	— with core end processing		1x (0.5 1.0 mm²), 2x (0.5 1.0 mm²)
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	<ul> <li>— without core end processing</li> </ul>		1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)
• solid1x (20 16), 2x (20 16)• stranded1x (20 16), 2x (20 16)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 delaySuitability for operation Device connector 3ZY12YesSuitability for interaction press controlYesSuitability for use • safety switchYes• Monitoring of floating sensors • Monitoring of non-floating sensors • magnetically operated switch monitoring • safety-related circuitsYes			
• 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 interaction press controlYesSuitability for use • safety switchYes• Monitoring of floating sensorsYes• Monitoring of non-floating sensorsYes• magnetically operated switch monitoring • safety-related circuitsYes			
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		
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	• stranded		1x (20 16), 2x (20 16)
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 monitoringYes• safety-related circuitsYes	Product Function:	_	
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
Suitability for useYes• safety switchYes• Monitoring of floating sensorsYes• Monitoring of non-floating sensorsYes• magnetically operated switch monitoringYes• safety-related circuitsYes	Suitability for operation Device connector 3ZY12		Yes
• safety switchYes• Monitoring of floating sensorsYes• Monitoring of non-floating sensorsYes• magnetically operated switch monitoringYes• safety-related circuitsYes	Suitability for interaction press control		Yes
<ul> <li>Monitoring of floating sensors</li> <li>Monitoring of non-floating sensors</li> <li>Monitoring of non-floating sensors</li> <li>magnetically operated switch monitoring</li> <li>safety-related circuits</li> <li>Yes</li> </ul>	Suitability for use		
<ul> <li>Monitoring of non-floating sensors</li> <li>magnetically operated switch monitoring</li> <li>safety-related circuits</li> <li>Yes</li> </ul>	<ul> <li>safety switch</li> </ul>		Yes
<ul> <li>magnetically operated switch monitoring</li> <li>safety-related circuits</li> <li>Yes</li> </ul>	<ul> <li>Monitoring of floating sensors</li> </ul>		Yes
safety-related circuits     Yes	<ul> <li>Monitoring of non-floating sensors</li> </ul>		Yes
	<ul> <li>magnetically operated switch monitoring</li> </ul>		Yes
Certificates/ approvals:	<ul> <li>safety-related circuits</li> </ul>		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

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

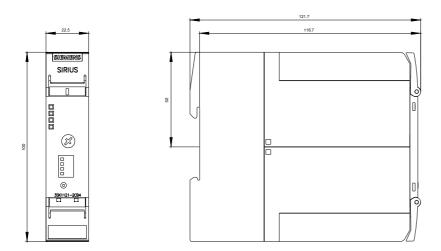
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

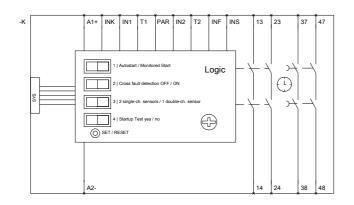
#### Cax online generator

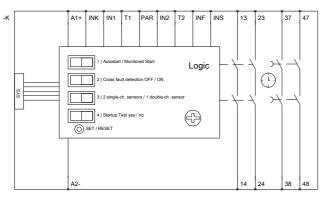
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SK11212CB41

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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