SIEMENS

Data sheet 3SK1121-1CB41



SIRIUS safety relay Basic unit Advanced series with time delay 0.05-3 s Relay enabling circuits 2 NO instantaneous 2 NO delayed Us = 24 V DC screw terminal

and does have a discourse	OIDIHO
product brand name	SIRIUS
product category	Safety relays
product designation	safety relays
design of the product	Relay enabling circuits
product type designation	3SK1
product line	Advanced basic unit
Product Function	
product function parameterizable	sensor floating / sensor non-floating, monitored start-up / automatic start, 1-channel / 2-channel sensor connection, cross-circuit detection, startup testing, antivalent sensors, 2-hand switches, time delay
product function	
automatic start	Yes
 light barrier monitoring 	Yes
 protective door monitoring 	Yes
 magnetically operated switch monitoring NC-NO 	Yes
 magnetically operated switch monitoring NC-NC 	Yes
 laser scanner monitoring 	Yes
 light array monitoring 	Yes
 EMERGENCY OFF function 	Yes
 monitored start-up 	Yes
 pressure-sensitive mat monitoring 	No
suitability for interaction press control	Yes
suitability for operation device connector 3ZY12	Yes
suitability for use	
 monitoring of floating sensors 	Yes
 monitoring of non-floating sensors 	Yes
 position switch monitoring 	Yes
 EMERGENCY-OFF circuit monitoring 	Yes
 opto-electronic protection device monitoring 	Yes
 magnetically operated switch monitoring 	Yes
 safety switch 	Yes
safety-related circuits	Yes
General technical data	
certificate of suitability UL approval	Yes
product feature cross-circuit-proof	Yes
power loss [W] maximum	2.5 W
insulation voltage rated value	300 V
degree of pollution	3
overvoltage category	3
surge voltage resistance rated value	4 000 V
protection class IP of the enclosure	IP20

shock resistance	10g / 11 ms
vibration resistance according to IEC 60068-2-6	5 500 Hz: 0.75 mm
operating frequency maximum	360 1/h
mechanical service life (operating cycles) typical	10 000 000
thermal current of the switching element with contacts maximum	5 A
reference code according to IEC 81346-2	F
Substance Prohibitance (Date)	11/05/2012
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 4,4'-isopropylidenediphenol (Bisphenol A, BPA) - 80-05-7 Lead titanium zirconium oxide - 12626-81-2
Weight	0.283 kg
Ambient conditions	
installation altitude at height above sea level maximum	4 000 m; Derating, see Product Notification 109792701
ambient temperature	
during operation	-25 +60 °C
during storage	-40 +80 °C
relative humidity during operation	10 95 %
air pressure according to SN 31205	90 106 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.
EMC emitted interference	IEC 60947-5-1, Class A
Safety related data	
stop category according to IEC 60204-1	0/1
IEC 62061	
SIL Claim Limit (subsystem) according to EN 62061	3
Safety Integrity Level (SIL) according to IEC 62061	SIL 3
PFHD with high demand rate according to IEC 62061	3.7E-9 1/h
ISO 13849	0.12 0
category according to EN ISO 13849-1	4
performance level (PL)	
• according to ISO 13849-1	PL e
for delayed release circuit according to ISO 13849-1	e
IEC 61508	
Safety Integrity Level (SIL)	
according to IEC 61508	3
for delayed release circuit according to IEC 61508	SIL3
safety device type according to IEC 61508-2	Type B
Average probability of failure on demand (PFDavg) with low demand rate acc. to IEC 61508	7E-6 1/y
PFDavg with low demand rate according to IEC 61508	7E-6
Safe failure fraction (SFF)	99 %
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
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the NO contacts of the relay outputs required	gL/gG: 6A or circuit breaker type A: 3A or circuit breaker type B: 2A or circuit breaker type C: 1A
Inputs	
design of input	
cascading input/functional switching	Yes
feedback input	Yes
• start input	Yes
pulse duration of the sensor input minimum	75 ms
number of sensor inputs 1-channel or 2-channel	1
Outputs	
number of outputs as contact-affected switching element	

- selfsty-related delighest switching switching appacity current of the NO contacts of the relay outputs at DC-13	as NO contact	
estelly relieted delayed switching aposity current of the NO contacts of the relay outputs at DC-13 • at 124 • at 115		2
switching capacity current of the NO contacts of the relay outputs at D4-13 at 124 V 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3	•	
* all 200 V * switching capacity current of the NO contacts of the relay output of the NO contacts o	switching capacity current of the NO contacts of the relay	
### 1290 V Surbivish at AC-15 ### 2012 V Surbivish at AC-15	• at 24 V	3 A
averticiting capacity current of the NO contacts of the relay outputs at AC-25 a.	• at 115 V	0.2 A
outputs at AC-15 at 150 V at 230 V ball current maximum 12 A Times make time with automatic start after power failure bypical make time with minitored start maximum 110 ms backslide delay time after opening of the safety circuits ypical backslide delay time in the event of power failure bypical substable OFF-delay time after opening of the safety circuits ypical adjustable OFF-delay time after opening of the safety circuits maximum 30 ms maximum 40 ms 30 ms crecovery time after opening of the safety circuits typical secovery time after opening of the safety circuits typical maximum 6 55 s public duration of the ON pushbutten input minimum 5 mA Control exempt Goutno yppo of votage of the control supply vottage control supply vottage at DC rated value magnetic coil at DC initial value ill-safet val	• at 230 V	0.1 A
total current maximum Times make time with automatic start * at DC maximum * bypical * naximum * sypical * maximum * sypical	outputs at AC-15	
Times make time with automatic start * at DC maximum 110 ms make time with automatic start after power failure * typical * maximum * typical * typic		
make time with automatic start • at CC maximum make time with automatic start after power failure • typocal • maximum make time with monitored start • maximum backskildo delay time after opening of the safety circuits typical • reading time in the event of power failure • typocal • spocal • maximum backskildo delay time after opening of the safety circuits typical backskildo delay time after opening of the safety circuits delay time after opening of the safety circuits • typocal • maximum dums • dypocal • maximum adjustable OFF-delay time after opening of the safety circuits typical recovery time after opening of the safety circuits typical recovery time after opening of the safety circuits typical • of the ON pushbutton input minimum • of the ON pushbutton i		
make time with automatic start at DC maximum make time with automatic start after power failure bypical maximum backsilde delay time after opening of the safety circuits typical maximum backsilde delay time in the event of power failure bypical maximum backsilde delay time in the event of power failure bypical maximum backsilde delay time in the event of power failure bypical maximum backsilde delay time in the event of power failure bypical maximum backsilde delay time in the event of power failure bypical maximum backsilde delay time in the event of power failure bypical maximum backsilde delay time in the event of power failure bypical maximum backsilde delay time in the event of power failure bypical maximum backsilde delay time in the event of power failure bypical maximum backsilde delay time in the event of power failure bypical delay time after opening of the safety circuits typical maximum bouthing poser failure typical backsilde delay time after opening of the safety circuits typical backsilde delay time after opening of the safety circuits typical backsilde of the Control supply voltage boulse duration boulse duration backsilde delay time after opening of the safety circuits typical backsilde of the Control supply voltage boulse duration boulse duration in the event of power failure backsilde of the control supply voltage boulse duration bounding poser of the control supply voltage at DC rated value of magnet coil in DC bridial value bounding poser of the control supply voltage at DC rated value of magnet coil in DC bridial value bounding poser of the control supply voltage at DC rated value of magnet coil in DC bridial value bounding poser of the control supply voltage at DC rated value of magnetic and the side bridial value bounding dimensions bridial value bounding poser of the control supply voltage at DC rated value of maximum bridial value bounding poser of the control supply voltage at DC rated value of maximum bridial value bounding poser of the control supply voltage at DC		12 A
* at DC maximum make time with automatic start after power failure * typical * maximum * de 500 ms * maximum * de 500 ms make time with monitored start * maximum * maximum * maximum * do ms * maximum * do ms * spical * maximum * do ms * adjustable OFF-delay time after opening of the safety circuits typical * maximum * do ms * adjustable OFF-delay time after opening of the safety circuits typical * recovery time after opening of the safety circuits typical * recovery time after opening of the safety circuits typical * of the ON pushbutton input minimum * do 55 s * Main circuit * operational current at 17 V minimum * do 75 mA * Control circuit/ Control * type of voltage of the control supply voltage * control supply voltage at DC rated value of magnet coil at DC * sinital value * sinital		
make time with automatic start after power failure • typical • maximum make time with montrored start • maximum backsilide delay time after opening of the safety circuits typical • typical • pyical • pyical • pyical • pyical • pyical • pyical • maximum adjustable OFF-delay time after opening of the safety • recovery time after opening of the safety • of the ON pushbutton input minimum • of or AWG cables sended • recovery time after opening of the safety • full-scale value • full-scale val		440
		110 ms
• maximum • maximum • maximum backslide delay time after opening of the safety circuits typical backslide delay time in the event of power failure • typical • typical • maximum • typical • paraminum • typical • maximum • du ms • du ms • maximum • of the ON pushbutton input minimum • of the ON pushbutton input minimum • fine or the ordinary of the cart of	-	0.500
make time with monitored start • maximum • maximum 110 ms abackslide delay time after opening of the safety circuits typical • hypical • of the ON pushbutton input minimum • of the ON pushbutton input minimum • hypical • of the ON pushbutton input minimum • hypical • here overly time after power failure typical pulse duration • of the ON pushbutton input minimum • hypical • of the ON pushbutton input minimum • hypical •	**	
maximum backsilde delay time after opening of the safety circuits typical backsilde delay time in the event of power failure important of the safety circuits typical of the OR pushbutton input minimum of the Safety of the OR pushbutton input minimum of the OR pushbutton of		6 500 ms
backslide delay time after opening of the safety circuits typical • typical • typical • maximum adjustable OFF-delay time after opening of the safety circuits recovery time after opening of the safety circuits typical adjustable OFF-delay time after opening of the safety circuits typical adjustable OFF-delay time after opening of the safety circuits typical adjustable OFF-delay time after opening of the safety circuits typical adjustable OFF-delay time after opening of the safety circuits typical adjustable OFF-delay time after opening of the safety circuits typical adjustable OFF-delay time after opening of the safety circuits typical adjustable OFF-delay time after opening of the safety circuits typical adjustable OFF-delay time after opening of the safety circuits typical adjustable OFF-delay time after opening of the safety circuits typical adjustable OFF-delay time after opening of the safety circuits typical adjustable OFF-delay time after opening of the safety circuits typical adjustable OFF-delay time after opening of the safety circuits typical adjustable OFF-delay time after opening of the safety circuits typical adjustable OFF-delay time after opening of the safety circuits typical adjustable OFF-delay time after opening of the safety circuits typical adjustable OFF-delay time after opening of the safety circuits typical adjustable OFF-delay time after opening of the safety circuits typical adjustable OFF-delay time after opening of the safety adjustable OFF-delay time after opening of the s		440
backslide delay time in the event of power failure • typical • maximum 40 ms adjustable OFF-delay time after opening of the safety circuits recovery time after opening of the safety circuits typical • of the ON pushbutton input minimum • of or ontice of the control supply voltage • of or general at the control supply voltage • of or general at the side • initial value • of electrical connection • of or AWG cables solid • inely stranded with core end processing • for AWG cables siranded • for AWG cables siranded • for AWG cables siranded • Approvals Certificatos		
in typical imaximum adjustable OFF-delay time after opening of the safety circuits covery time after opening of the safety circuits typical recovery time after opening of the safety circuits typical recovery time after opening of the safety circuits typical recovery time after opening of the safety circuits typical pulse duration of the ON pushbutton input minimum o.15 s Main circuit operational current at 17 V minimum 5 mA Control circuit Control type of voltage of the control supply voltage control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value initial value full-scale value initial value serve and snap-on mounting fastening method serve and snap-on mounting height ino mm width 22.5 mm depth for grounded parts at the side Connections/ Torminals type of electrical connection wire length with Cut.1.5 mm² and 150 nF/km per sensor circuit maximum type of one connectable conductor cross-sections solid intelly stranded with core end processing if or AWG cables solid if ney year of electrical connection plug-in socket Approvals Certificates		40 1115
maximum	backslide delay time in the event of power failure	
adjustable OFF-delay time after opening of the safety circuits recovery time after opening of the safety circuits typical recovery time after power failure typical pulse duration of the ON pushbutton input minimum 0.15 s Main circuit operational current at 17 V minimum 5 mA Control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coll at DC initial value operating range factor control supply voltage rated value of magnet coll at DC initial value operating range factor control supply voltage rated value of magnet coll at DC initial value 1,2 Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting height 100 mm width 22.5 mm depth required spacing of orgounded parts at the side Connections/ Terminals type of electrical connection Wire length with Cu 1.5 mm² and 150 nF/km per sensor circuit maximum type of connectable conductor cross-sections of solid for AWG cables solid for AWG cables solid for AWG cables stranded fype of electrical connection plug-in socket No Approvals Certificates	• typical	30 ms
circuits recovery time after opening of the safety circuits typical recovery time after power failure typical recovery time after power failure typical of the ON pushbutton input minimum of t	maximum	40 ms
recovery time after power failure typical pulse duration of the ON pushbutton input minimum 0.15 s Main circuit operational current at 17 V minimum 5 mA Control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC rated value 24 V operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value 1.2 Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting depth 100 mm width 22.5 mm depth 121.6 mm required spacing of grounded parts at the side Connections/ Terminals type of electrical connection wire length with Cu 1.5 mm² and 150 nF/km per sensor circuit maximum type of connectable conductor cross-sections soli finely stranded with core end processing for AWG cables stranded type of electrical connection plug-in socket Approvals Cortificates		0.05 3 s
pulse duration	recovery time after opening of the safety circuits typical	30 ms
of the ON pushbutton input minimum	recovery time after power failure typical	6.5 s
Main circuit operational current at 17 V minimum 5 mA Control circuit/ Control type of voltage of the control supply voltage DC control supply voltage at DC rated value 24 V operating range factor control supply voltage rated value of magnet coil at DC • initial value 0.8 • full-scale value 1.2 Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting height 100 mm width 22.5 mm depth 121.6 mm required spacing • for grounded parts at the side 5 mm Connections/ Terminals type of electrical connection wire length • with Cu 1.5 mm² and 150 nF/km per sensor circuit maximum type of connectable conductor cross-sections • solid 1x (0.5 2.5 mm²), 2x (1.0 1.5 mm²) • for AWG cables solid 1x (20 14), 2x (18 16) • for AWG cables stranded 1x (20 14), 2x (18 16) • for AWG cables stranded 1x (20 16), 2x (20 16) type of electrical connection plug-in socket Approvals Certificates	•	
operational current at 17 V minimum 5 mA Control circuit/ Control type of voltage of the control supply voltage DC control supply voltage at DC rated value 9 operating range factor control supply voltage rated value of magnet coil at DC • initial value 0.8 • full-scale value 1.2 Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting height 100 mm width 22.5 mm depth 121.6 mm required spacing • for grounded parts at the side 5 mm Connections/ Terminals type of electrical connection screw terminal wire length • with Cu 1.5 mm² and 150 nF/km per sensor circuit maximum type of connectable conductor cross-sections • solid • for AWG cables solid • for AWG cables stranded type of electrical connection plug-in socket Approvals Certificates		0.15 s
type of voltage of the control supply voltage DC control supply voltage at DC rated value 24 V operating range factor control supply voltage at DC rated value of magnet coil at DC		
type of voltage of the control supply voltage control supply voltage at DC rated value 24 V operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value 1.2 Installation/ mounting/ dimensions mounting position fastening method height width 22.5 mm depth 121.6 mm required spacing • for grounded parts at the side 5 mm Connections/ Terminals type of electrical connection wire length • with Cu 1.5 mm² and 150 nF/km per sensor circuit maximum type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded type of electrical connection plug-in socket No Approvals Certificates	·	5 mA
control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value 1.2 Installation/ mounting/ dimensions mounting position fastening method height 100 mm width 22.5 mm depth 121.6 mm required spacing • for grounded parts at the side Connections/ Terminals type of electrical connection wire length • with Cu 1.5 mm² and 150 nF/km per sensor circuit maximum type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded type of electrical connection plug-in socket Approvals Certificates		
operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value • full-scale value 1.2 Installation/ mounting/ dimensions mounting position fastening method height 100 mm width 22.5 mm depth 121.6 mm required spacing • for grounded parts at the side Connections/ Terminals type of electrical connection wire length • with Cu 1.5 mm² and 150 nF/km per sensor circuit maximum type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded type of electrical connection plug-in socket Approvals Certificates		1)(:
magnet coil at DC initial value full-scale value 1.2 Installation/ mounting/ dimensions mounting position fastening method height 100 mm width 22.5 mm depth 121.6 mm required spacing if or grounded parts at the side Connections/ Terminals type of electrical connection wire length with Cu 1.5 mm² and 150 nF/km per sensor circuit maximum type of connectable conductor cross-sections solid finely stranded with core end processing for AWG cables solid for AWG cables stranded type of electrical connection plug-in socket Approvals Certificates		
	control supply voltage at DC rated value	
Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting height 100 mm width 22.5 mm depth 121.6 mm required spacing • for grounded parts at the side 5 mm Connections/ Terminals type of electrical connection screw terminal wire length • with Cu 1.5 mm² and 150 nF/km per sensor circuit maximum type of connectable conductor cross-sections • solid 1x (0.5 2.5 mm²), 2x (1.0 1.5 mm²) • finely stranded with core end processing 1x (20 14), 2x (18 16) • for AWG cables stranded 1x (20 16), 2x (20 16) type of electrical connection plug-in socket Approvals Certificates	control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC	24 V
mounting position fastening method screw and snap-on mounting height 100 mm width 22.5 mm depth 121.6 mm required spacing for grounded parts at the side 5 mm Connections/ Terminals type of electrical connection wire length with Cu 1.5 mm² and 150 nF/km per sensor circuit maximum type of connectable conductor cross-sections solid finely stranded with core end processing for AWG cables solid for AWG cables stranded type of electrical connection plug-in socket No Approvals Certificates	control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value	0.8
fastening method screw and snap-on mounting height 100 mm width 22.5 mm depth 121.6 mm required spacing	control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value	0.8
height 100 mm width 22.5 mm depth 121.6 mm required spacing	control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value Installation/ mounting/ dimensions	0.8 1.2
width 22.5 mm depth 121.6 mm required spacing 5 mm ● for grounded parts at the side 5 mm Connections/ Terminals type of electrical connection wire length • with Cu 1.5 mm² and 150 nF/km per sensor circuit maximum type of connectable conductor cross-sections 4 000 m • solid 1x (0.5 2.5 mm²), 2x (1.0 1.5 mm²) • finely stranded with core end processing 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) • for AWG cables solid 1x (20 14), 2x (18 16) • for AWG cables stranded 1x (20 16), 2x (20 16) type of electrical connection plug-in socket No Approvals Certificates	control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value Installation/ mounting/ dimensions mounting position	24 V 0.8 1.2 any
depth 121.6 mm required spacing	control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value Installation/ mounting/ dimensions mounting position fastening method	24 V 0.8 1.2 any screw and snap-on mounting
required spacing	control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value Installation/ mounting/ dimensions mounting position fastening method height	24 V 0.8 1.2 any screw and snap-on mounting 100 mm
for grounded parts at the side Connections/ Terminals type of electrical connection screw terminal wire length with Cu 1.5 mm² and 150 nF/km per sensor circuit maximum type of connectable conductor cross-sections solid	control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value Installation/ mounting/ dimensions mounting position fastening method height width	24 V 0.8 1.2 any screw and snap-on mounting 100 mm 22.5 mm
type of electrical connection wire length with Cu 1.5 mm² and 150 nF/km per sensor circuit maximum type of connectable conductor cross-sections solid solid type of inely stranded with core end processing for AWG cables solid for AWG cables stranded type of electrical connection plug-in socket Approvals Certificates	control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value Installation/ mounting/ dimensions mounting position fastening method height width depth	24 V 0.8 1.2 any screw and snap-on mounting 100 mm 22.5 mm
wire length • with Cu 1.5 mm² and 150 nF/km per sensor circuit maximum type of connectable conductor cross-sections • solid • solid 1x (0.5 2.5 mm²), 2x (1.0 1.5 mm²) • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded 1x (20 14), 2x (18 16) • for AWG cables stranded 1x (20 16), 2x (20 16) type of electrical connection plug-in socket No Approvals Certificates	control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	24 V 0.8 1.2 any screw and snap-on mounting 100 mm 22.5 mm 121.6 mm
 with Cu 1.5 mm² and 150 nF/km per sensor circuit maximum type of connectable conductor cross-sections solid finely stranded with core end processing for AWG cables solid for AWG cables stranded for AWG cables stranded type of electrical connection plug-in socket Approvals Certificates 	control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at the side	24 V 0.8 1.2 any screw and snap-on mounting 100 mm 22.5 mm 121.6 mm
type of connectable conductor cross-sections • solid 1x (0.5 2.5 mm²), 2x (1.0 1.5 mm²) • finely stranded with core end processing 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (20 14), 2x (18 16) 1x (20 16), 2x (20 16) type of electrical connection plug-in socket No Approvals Certificates	control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at the side Connections/ Terminals	24 V 0.8 1.2 any screw and snap-on mounting 100 mm 22.5 mm 121.6 mm
 solid 1x (0.5 2.5 mm²), 2x (1.0 1.5 mm²) finely stranded with core end processing for AWG cables solid for AWG cables stranded for AWG cables stranded type of electrical connection plug-in socket Approvals Certificates 	control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at the side Connections/ Terminals type of electrical connection wire length • with Cu 1.5 mm² and 150 nF/km per sensor circuit	24 V 0.8 1.2 any screw and snap-on mounting 100 mm 22.5 mm 121.6 mm 5 mm
 finely stranded with core end processing for AWG cables solid for AWG cables stranded for AWG cables stranded type of electrical connection plug-in socket Approvals Certificates 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (20 16) 1x (20 16) No	control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC o initial value o full-scale value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing o for grounded parts at the side Connections/ Terminals type of electrical connection wire length o with Cu 1.5 mm² and 150 nF/km per sensor circuit maximum	24 V 0.8 1.2 any screw and snap-on mounting 100 mm 22.5 mm 121.6 mm 5 mm
 for AWG cables solid for AWG cables stranded 1x (20 14), 2x (18 16) 1x (20 16), 2x (20 16) type of electrical connection plug-in socket No Approvals Certificates	control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at the side Connections/ Terminals type of electrical connection wire length • with Cu 1.5 mm² and 150 nF/km per sensor circuit maximum type of connectable conductor cross-sections	24 V 0.8 1.2 any screw and snap-on mounting 100 mm 22.5 mm 121.6 mm 5 mm screw terminal 4 000 m
● for AWG cables stranded 1x (20 16), 2x (20 16) type of electrical connection plug-in socket No Approvals Certificates	control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at the side Connections/ Terminals type of electrical connection wire length • with Cu 1.5 mm² and 150 nF/km per sensor circuit maximum type of connectable conductor cross-sections • solid	24 V 0.8 1.2 any screw and snap-on mounting 100 mm 22.5 mm 121.6 mm 5 mm screw terminal 4 000 m 1x (0.5 2.5 mm²), 2x (1.0 1.5 mm²)
type of electrical connection plug-in socket No Approvals Certificates	control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at the side Connections/ Terminals type of electrical connection wire length • with Cu 1.5 mm² and 150 nF/km per sensor circuit maximum type of connectable conductor cross-sections • solid • finely stranded with core end processing	24 V 0.8 1.2 any screw and snap-on mounting 100 mm 22.5 mm 121.6 mm 5 mm screw terminal 4 000 m 1x (0.5 2.5 mm²), 2x (1.0 1.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
Approvals Certificates	control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at the side Connections/ Terminals type of electrical connection wire length • with Cu 1.5 mm² and 150 nF/km per sensor circuit maximum type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid	24 V 0.8 1.2 any screw and snap-on mounting 100 mm 22.5 mm 121.6 mm 5 mm screw terminal 4 000 m 1x (0.5 2.5 mm²), 2x (1.0 1.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (20 14), 2x (18 16)
General Product Approval	control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at the side Connections/ Terminals type of electrical connection wire length • with Cu 1.5 mm² and 150 nF/km per sensor circuit maximum type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded	24 V 0.8 1.2 any screw and snap-on mounting 100 mm 22.5 mm 121.6 mm 5 mm screw terminal 4 000 m 1x (0.5 2.5 mm²), 2x (1.0 1.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (20 14), 2x (18 16) 1x (20 16), 2x (20 16)
	control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at the side Connections/ Terminals type of electrical connection wire length • with Cu 1.5 mm² and 150 nF/km per sensor circuit maximum type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded type of electrical connection plug-in socket	24 V 0.8 1.2 any screw and snap-on mounting 100 mm 22.5 mm 121.6 mm 5 mm screw terminal 4 000 m 1x (0.5 2.5 mm²), 2x (1.0 1.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (20 14), 2x (18 16) 1x (20 16), 2x (20 16)







Confirmation





EMV

Functional Saftey

Test Certificates

Marine / Shipping



Type Examination Certificate

Type Test Certificates/Test Report







Marine / Shipping

- 41- - -

Railway

Environment



Confirmation

Confirmation

Environmental Confirmations

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3SK1121-1CB41

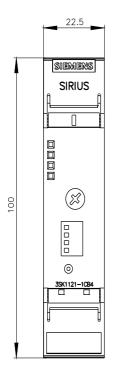
Cax online generator

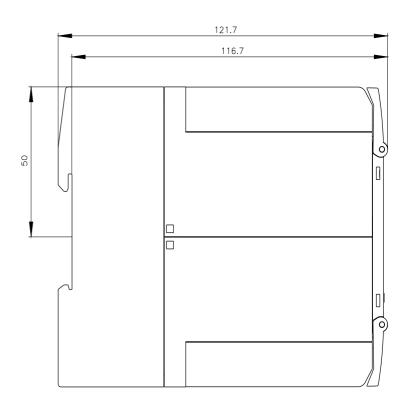
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SK1121-1CB41

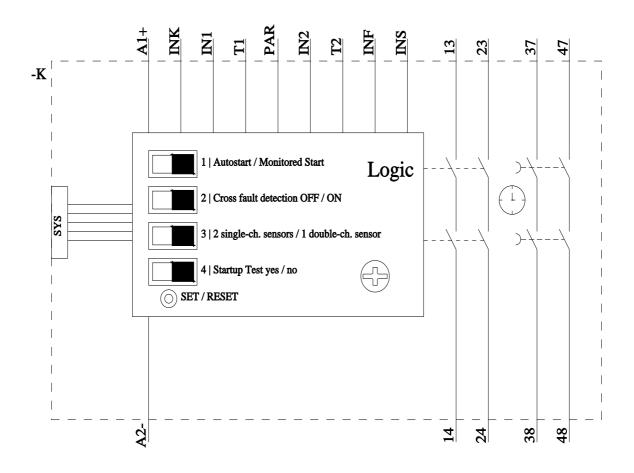
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

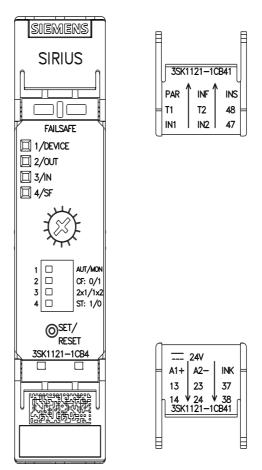
https://support.industry.siemens.com/cs/ww/en/ps/3SK1121-1CB41

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SK1121-1CB41&lang=en









last modified: 11/25/2024 🖸