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 1/11
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
S	SIL3
for delayed release circuit according to IEC 61508	
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	

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Confirmation





EMV

Functional Saftey

Test Certificates

Marine / Shipping



Type Examination Certificate

Type Test Certificates/Test Report







Marine / Shipping

othor

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

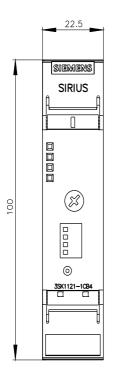
Cax online generator

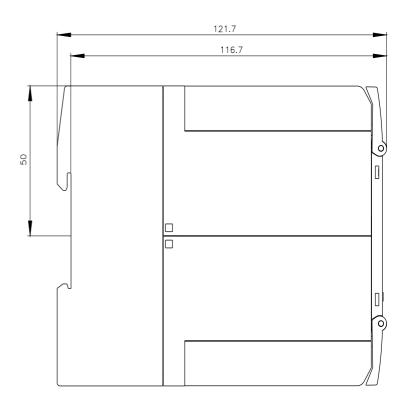
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SK1121-1CB41

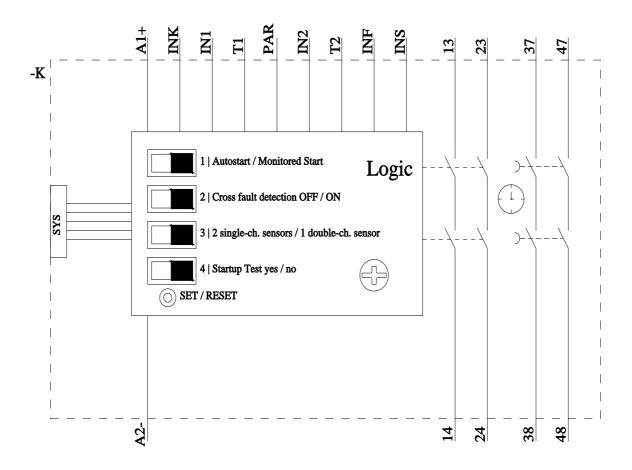
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

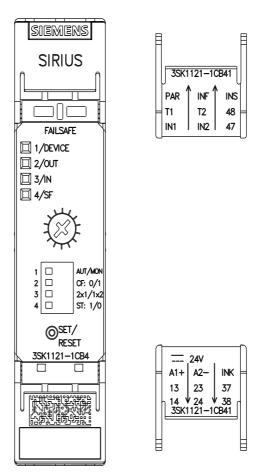
https://support.industry.siemens.com/cs/ww/en/ps/3SK1121-1CB41

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









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