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Data sheet 3SK2511-1FA10

SIRIUS, interface module PROFINET interface for safety relay 3SK2 from E05 and 3RK312/3RK313 from E04 PROFINET IO interface 100 Mbps, RJ45 22.5 mm width screw terminal parameter assignment via Safety ES without connection cable

product brand name	SIRIUS
product category	Safety relay
product designation	Interface module
design of the product	PN interface
General technical data	
certificate of suitability UL approval	Yes
configuration software required	Yes; Safety ES V1.0 SP3 and higher
insulation voltage rated value	50 V
degree of pollution	3
surge voltage resistance rated value	800 V
consumed current for rated value of supply voltage	0.04 A
protection class IP of the enclosure	IP20
shock resistance	15g / 11 ms
vibration resistance	
● **according to IEC 60068-2-6**	5 ... 500 Hz: 0.75 mm
reference code according to IEC 81346-2	K
Substance Prohibitance (Date)	05/01/2012
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8
Net Weight	0.169 kg
Ambient conditions	
installation altitude at height above sea level maximum	4 000 m
relative humidity during operation	10 ... 95 %
air pressure according to SN 31205	90 ... 106 kPa
Electromagnetic compatibility	
EMC emitted interference according to IEC 60947-1	class A
EMC immunity according to IEC 60947-1	Class A
conducted interference	
● due to burst according to IEC 61000-4-4	2 kV (power ports)
● due to conductor-earth surge according to IEC 61000-4-5	Test Level 0.5 KV / 1 KV
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
Electrical Safety	
touch protection against electrical shock	finger-safe
operating power rated value	1 W
Communication/ Protocol	
protocol is supported	
● PROFIBUS DP protocol	No
● PROFINET IO protocol	Yes
● PROFIsafe protocol	No

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● LLDP	Yes
● Address Resolution Protocol (ARP)	Yes
● SNMP	Yes
● HTTPS	No
● NTP	No
● Media Redundancy Protocol (MRP)	No
design of the interface	
● Ethernet interface	Yes
● Fast Ethernet interface	No
number of interfaces according to PROFINET	1
product function	
● at the Ethernet interface Autocrossover	Yes
● at the Ethernet interface Autonegotiation	Yes
● at the Ethernet interface Autosensing	Yes
● supports PROFIenergy measured values	No
● supports PROFIenergy shutdown	No
interface design 1 RJ45 (Ethernet)	Yes
protocol at the 1st interface media redundancy protocol	No
product function at the 1st interface PROFINET IO device	Yes
number of ports at the 1st interface	1
service as PROFINET IO device	
● prioritized startup	No
● isochronous mode	No
● supports PROFIenergy	No
● IRT	No
● MRP	No
service for open IE communication	
● LLDP	Yes
● SNMP	Yes
● TCP/IP	No
transmission mode for Industrial Ethernet	PROFINET with 100 Mbps full duplex (100BASE-TX)
PROFINET conformity class	B
network load class according to PROFINET	I
specification for Security Level 1 test according to PROFINET	V1.1.6
data volume of the cyclic user data	
● for inputs with PROFINET IO	64 bit
● for outputs with PROFINET IO	64 bit
data volume as user data per station maximum	8 byte
Control circuit/ Control	
type of voltage	DC
control supply voltage rated value	24 V
inrush current peak at 24 V	4 A
duration of inrush current peak at 24 V	1 ms
Installation/ mounting/ dimensions	
mounting position	any
fastening method	Snap-mounted to DIN rail or screw-mounted with additional push-in lug
height	100 mm
width	22.5 mm
depth	124.5 mm
weight without packaging	148 kg
Connections/ Terminals	
product function removable terminal	Yes
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)
● for AWG cables solid	1x (20 ... 14), 2x (18 ... 16)
● for AWG cables stranded	1x (20 ... 14), 2x (18 ... 16)
type of connectable conductor cross-sections	

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● for auxiliary contacts	
— solid	1x (0.5 ... 4 mm²), 2x (0.5 ... 2.5 mm²)
— finely stranded with core end processing	1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.5 mm²)
● for AWG cables for auxiliary contacts	2x (20 ... 14)

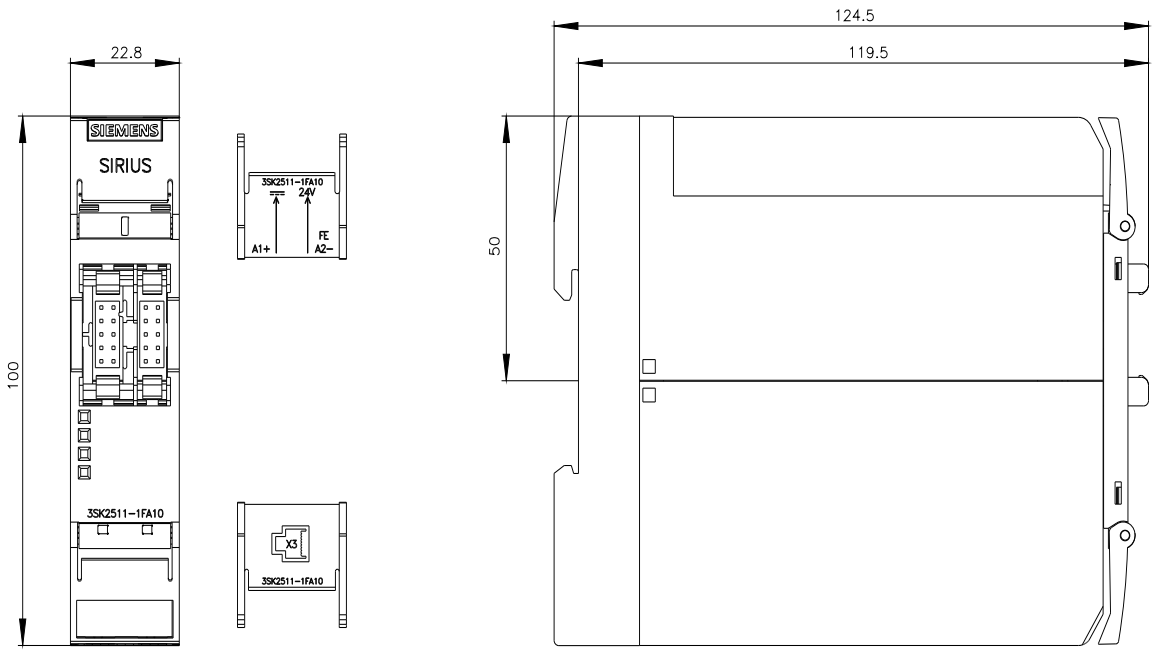
Approvals Certificates

General Product Approval				EMV	Functional Saftey
CE EG-Konf.	UKCA	cULus	EAC	RCM	Type Examination Certificate

Test Certificates	other		Environment	Industrial Communication
Type Test Certificates/Test Report	产品合格 QC PASS	Confirmation	Environmental Confirmations	Profibus

Further information

Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information for data generation and storage
https://support.industry.siemens.com/cs/ww/en/view/109995012
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=3SK2511-1FA10
Cax online generator
https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SK2511-1FA10
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3SK2511-1FA10
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SK2511-1FA10&lang=en



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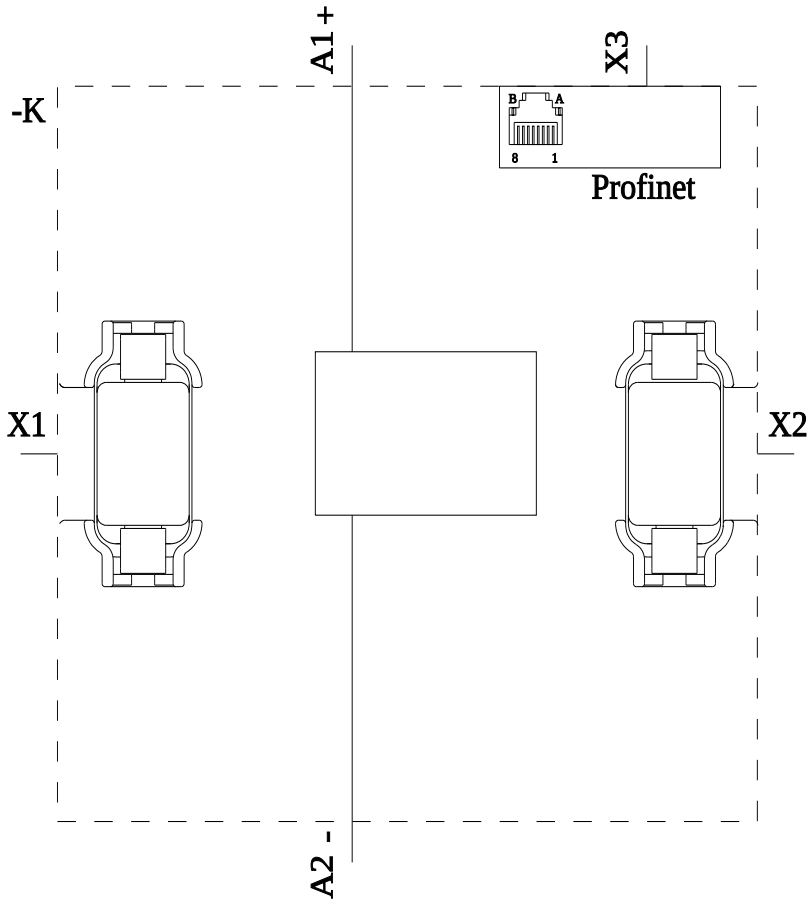

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