



SIRIUS, interface module PROFINET interface for safety relay 3SK2 as of E05 and 3RK31 as of E04
 PROFINET IO interface 100 Mbit/s, RJ45 22.5 mm width
 Screw terminal Can be parameterized via Safety ES without connecting cable

Figure similar

Product brand name		SIRIUS
Product category		Safety relay
Product designation		Interface module
Design of the product		PN interface

General technical data		
Configuration software required		Yes; Safety ES V1.0 SP3 and higher
Protection class IP		IP20
Protection class IP of the enclosure		IP20
Shock resistance		15g / 11 ms
Degree of pollution		3
Certificate of suitability UL approval		Yes
Vibration resistance acc. to IEC 60068-2-6		5 ... 500 Hz: 0.75 mm
Surge voltage resistance rated value	V	800
Insulation voltage rated value	V	50
Consumed current for rated value of supply voltage	A	0.04
Reference code acc. to DIN EN 61346-2		K

Communication/ Protocol

Protocol is supported		
• PROFIBUS DP protocol		No
• SNMP		Yes
• HTTPS		No
• LLDP		Yes
• PROFINET IO protocol		Yes
• PROFI-safe protocol		No
• NTP		No
• Media Redundancy Protocol (MRP)		No
• Address Resolution Protocol (ARP)		Yes
Transmission mode for Industrial Ethernet		PROFINET with 100 Mbps full duplex (100BASE-TX)
Amount of data as user data per station maximum	byte	8
Amount of data of the cyclic user data		
• for inputs with PROFINET IO	bit	64
• for outputs with PROFINET IO	bit	64
Product function at the Ethernet interface		
• Autonegotiation		Yes
• Autosensing		Yes
• Autocrossover		Yes
Service for open IE communication		
• LLDP		Yes
• SNMP		Yes
• TCP/IP		No
Service as PROFINET IO device		
• isochronous mode		No
• MRP		No
• IRT		No
• prioritized startup		No
• supports PROFIenergy		No
• supports Shared Device		No
PROFINET conformity class		B
Network load class acc. to PROFINET		1
Specification for Security Level 1 test acc. to PROFINET		V1.1.6
Product function		
• supports PROFIenergy measured values		No
• supports PROFIenergy shutdown		No
Product function at the 1st interface PROFINET IO device		Yes
Protocol at the 1st interface media redundancy protocol		No
Number of ports at the 1st interface		1

Interface design 1 RJ45 (Ethernet)		Yes
Design of the interface		
• Ethernet interface		Yes
• Fast Ethernet interface		No
Number of interfaces acc. to PROFINET		1

Control circuit/ Control

Control supply voltage rated value	V	24
Type of voltage		DC
Operating range factor control supply voltage rated value at DC		0.85 ... 1.2
Inrush current peak at 24 V	A	4
Duration of inrush current peak at 24 V	ms	1
Operating power rated value	W	1

Installation/ mounting/ dimensions

Mounting type		Snap-mounted to DIN rail or screw-mounted with additional push-in lug
Mounting position		any
Width	mm	22.5
Height	mm	100
Depth	mm	124.5
Weight without packaging	kg	148

Connections/ Terminals

Product function removable terminal		Yes
Type of connectable conductor cross-sections solid		1x (0.5 ... 2.5 mm ²), 2x (1.0 ... 1.5 mm ²)
Connectable conductor cross-section solid	mm ²	0.5 ... 2.5
Type of connectable conductor cross-sections finely stranded with core end processing		1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.0 mm ²)
Connectable conductor cross-section finely stranded with core end processing	mm ²	0.5 ... 2.5
Type of electrical connection		screw-type terminals
AWG number as coded connectable conductor cross section		
• solid		20 ... 14
• stranded		20 ... 14
Type of connectable conductor cross-sections at AWG conductors		
• solid		1x (20 ... 14), 2x (18 ... 16)
• stranded		1x (20 ... 14), 2x (18 ... 16)

Safety related data

Protection against electrical shock		finger-safe
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Electromagnetic compatibility





EMI immunity acc. to IEC 60947-1		Class A
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Conducted interference due to burst acc. to IEC 61000-4-4		2 kV (power ports)
Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5		Test Level 0.5 KV / 1 KV
Electrostatic discharge acc. to IEC 61000-4-2		4 kV contact discharge / 8 kV air discharge
Field-bound parasitic coupling acc. to IEC 61000-4-3		10 V/m
EMC emitted interference acc. to IEC 60947-1		class A

Ambient conditions

Installation altitude at height above sea level maximum	m	2 000
Ambient temperature		
• during operation	°C	-25 ... +60
• during storage	°C	-40 ... +85
• during transport	°C	-40 ... +80
Relative humidity during operation	%	10 ... 95
Air pressure acc. to SN 31205	kPa	90 ... 106

Certificates/ approvals

General Product Approval	Functional Safety/Safety of Machinery	Declaration of Conformity
 CSA	 UL	 EAC
	Type Examination Certificate	Miscellaneous
		 EG-Konf.

Test Certificates	other
Type Test Certificates/Test Report	Confirmation
 Profibus	

Further information

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

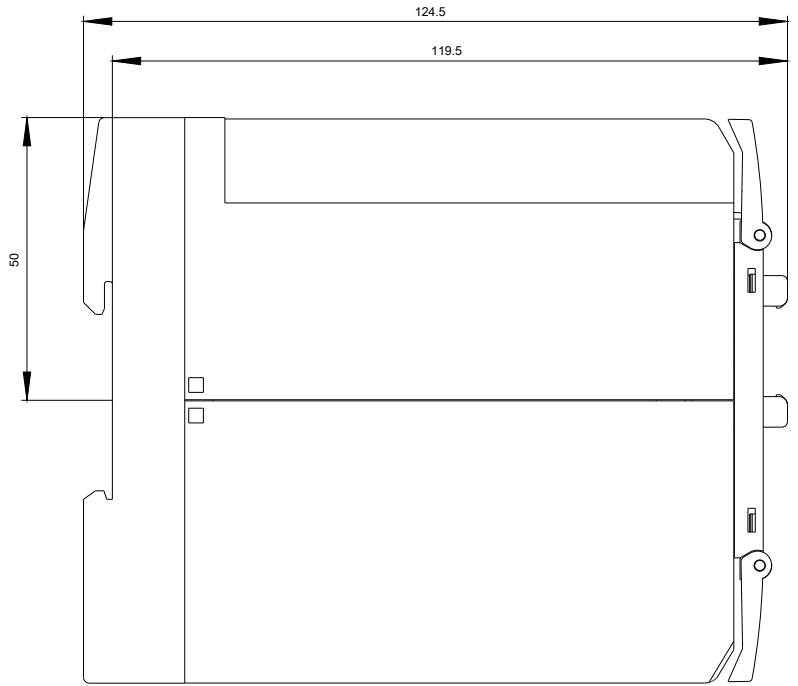
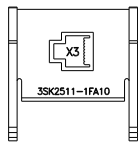
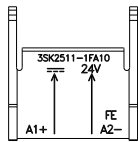
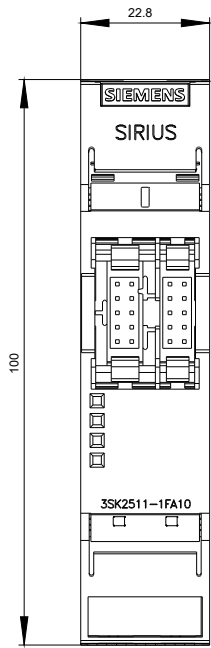
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SK2511-1FA10>

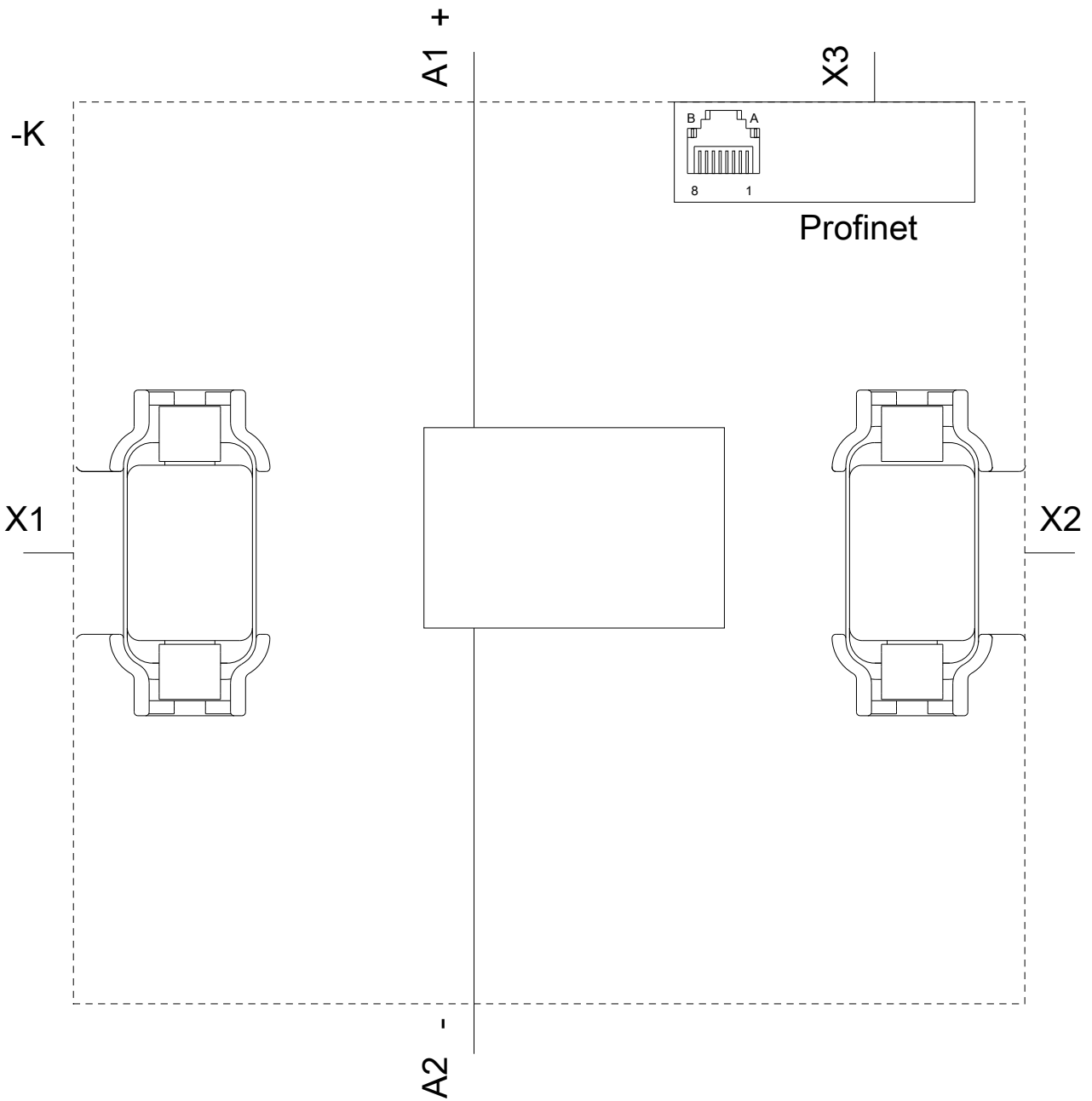
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<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, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SK2511-1FA10&lang=en





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