



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


<b>product brand name</b>	SIRIUS
<b>product category</b>	Safety relay
<b>product designation</b>	Interface module
<b>design of the product</b>	PN interface
<b>General technical data</b>	
certificate of suitability UL approval	Yes
<b>configuration software required</b>	Yes; Safety ES V1.0 SP3 and higher
<b>insulation voltage rated value</b>	50 V
<b>degree of pollution</b>	3
<b>surge voltage resistance rated value</b>	800 V
consumed current for rated value of supply voltage	0.04 A
protection class IP of the enclosure	IP20
<b>shock resistance</b>	15g / 11 ms
<b>vibration resistance</b>	
• according to IEC 60068-2-6	5 ... 500 Hz: 0.75 mm
<b>reference code according to IEC 81346-2</b>	K
<b>Substance Prohibition (Date)</b>	05/01/2012
<b>SVHC substance name</b>	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8
<b>Weight</b>	0.182 kg
<b>Ambient conditions</b>	
installation altitude at height above sea level maximum	4 000 m; Derating, see Product Notification 109792701
relative humidity during operation	10 ... 95 %
air pressure according to SN 31205	90 ... 106 kPa
<b>Electromagnetic compatibility</b>	
EMC emitted interference according to IEC 60947-1	class A
EMC immunity according to IEC 60947-1	Class A
<b>conducted interference</b>	
• 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
<b>field-based interference according to IEC 61000-4-3</b>	10 V/m
<b>electrostatic discharge according to IEC 61000-4-2</b>	4 kV contact discharge / 8 kV air discharge
<b>Electrical Safety</b>	
<b>touch protection against electrical shock</b>	finger-safe
<b>Communication/ Protocol</b>	
<b>protocol is supported</b>	
• PROFIBUS DP protocol	No
• PROFINET IO protocol	Yes
• PROFIsafe protocol	No
• LLDAP	Yes

• Address Resolution Protocol (ARP)	Yes
• SNMP	Yes
• HTTPS	No
• NTP	No
• Media Redundancy Protocol (MRP)	No
<b>design of the interface</b>	
• Ethernet interface	Yes
• Fast Ethernet interface	No
number of interfaces according to PROFINET	1
<b>product function</b>	
• at the Ethernet interface Autocrossover	Yes
• at the Ethernet interface Autonegotiation	Yes
• at the Ethernet interface Autosensing	Yes
• supports PROFINergy measured values	No
• supports PROFINergy 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
<b>number of ports at the 1st interface</b>	1
<b>service as PROFINET IO device</b>	
• prioritized startup	No
• isochronous mode	No
• supports PROFINergy	No
• IRT	No
• MRP	No
<b>service for open IE communication</b>	
• LLDP	Yes
• SNMP	Yes
• TCP/IP	No
<b>transmission mode for Industrial Ethernet</b>	PROFINET with 100 Mbps full duplex (100BASE-TX)
<b>PROFINET conformity class</b>	B
<b>network load class according to PROFINET</b>	1
<b>specification for Security Level 1 test according to PROFINET</b>	V1.1.6
<b>data volume of the cyclic user data</b>	
• for inputs with PROFINET IO	64 bit
• for outputs with PROFINET IO	64 bit
<b>data volume as user data per station maximum</b>	8 byte
operating power rated value	1 W
<b>Control circuit/ Control</b>	
<b>type of voltage</b>	DC
<b>control supply voltage rated value</b>	24 V
inrush current peak at 24 V	4 A
duration of inrush current peak at 24 V	1 ms
<b>Installation/ mounting/ dimensions</b>	
<b>mounting position</b>	any
<b>fastening method</b>	Snap-mounted to DIN rail or screw-mounted with additional push-in lug
<b>height</b>	100 mm
<b>width</b>	22.5 mm
<b>depth</b>	124.5 mm
<b>weight without packaging</b>	148 kg
<b>Connections/ Terminals</b>	
<b>product function removable terminal</b>	Yes
<b>type of connectable conductor cross-sections</b>	
• solid	1x (0.5 ... 2.5 mm <sup>2</sup> ), 2x (1.0 ... 1.5 mm <sup>2</sup> )
• finely stranded with core end processing	1x (0.5 ... 2.5 mm <sup>2</sup> ), 2x (0.5 ... 1.0 mm <sup>2</sup> )
• for AWG cables solid	1x (20 ... 14), 2x (18 ... 16)
• for AWG cables stranded	1x (20 ... 14), 2x (18 ... 16)
<b>Approvals Certificates</b>	
<b>General Product Approval</b>	<b>EMV</b>



[Confirmation](#)



Functional Safety	Test Certificates	other	Environment	Industrial Communication
<a href="#">Type Examination Certificate</a>	<a href="#">Type Test Certificates/Test Report</a>	<a href="#">Confirmation</a>	<a href="#">Environmental Confirmations</a>	 Profibus

### 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=3SK2511-1FA10>

#### Cax online generator

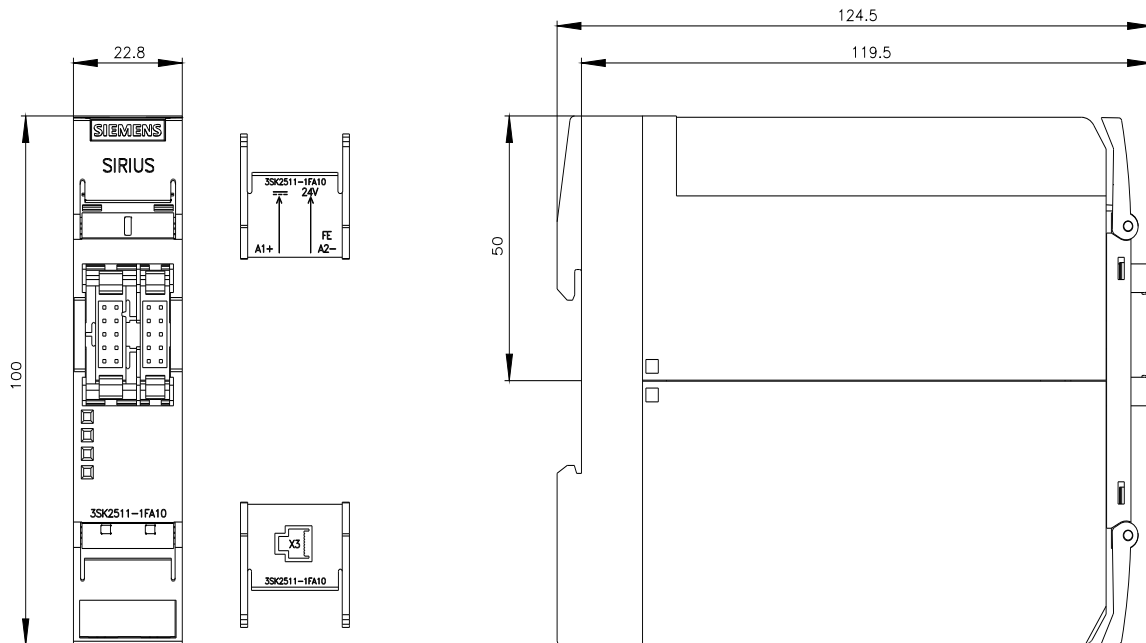
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SK2511-1FA10>

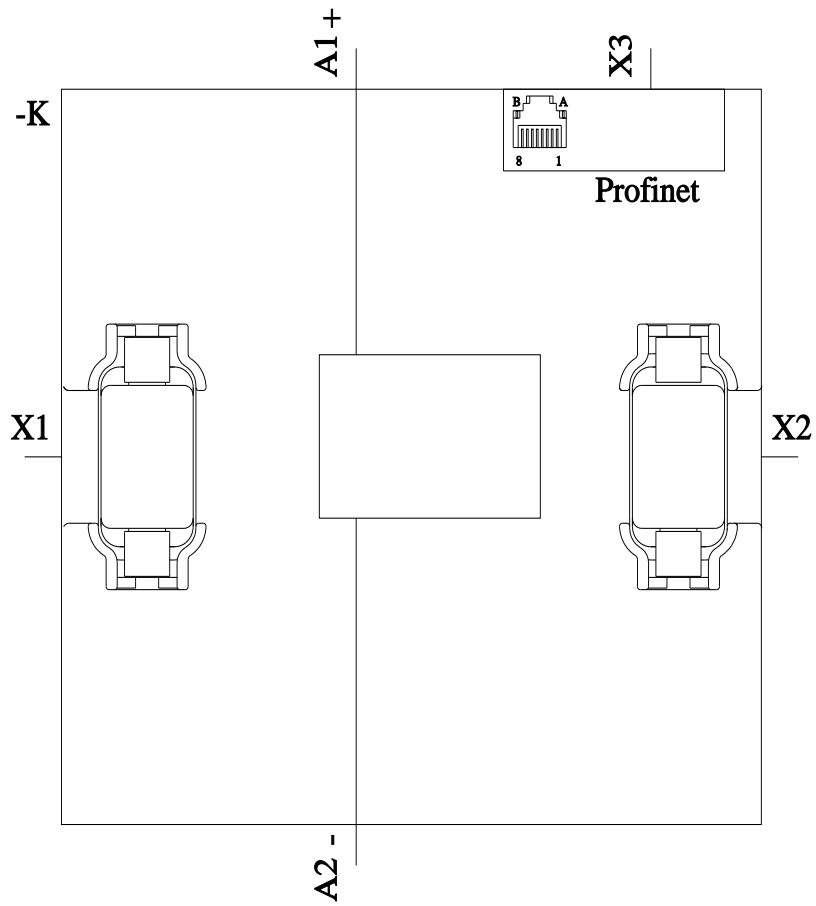
#### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

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





last modified:

3/11/2024 