



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 Spring-type terminal Can be parameterized via Safety ES without connecting cable

product brand name	SIRIUS
product category	Safety relay
product designation	Interface module
design of the product	PN interface
<b>General technical data</b>	
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
Weight	0.175 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
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
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
<b>Electrical Safety</b>	
touch protection against electrical shock	finger-safe
<b>Communication/ Protocol</b>	
protocol is supported	
• PROFIBUS DP protocol	No
• PROFINET IO protocol	Yes
• PROFIsafe protocol	No
• LLDIP	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>	I
<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>	140 kg
<b>Connections/ Terminals</b>	
<b>product function removable terminal</b>	Yes
<b>type of connectable conductor cross-sections</b>	
• solid	1x (0.5 ... 1.5 mm²), 2x (0.5 ... 1.5 mm²)
• finely stranded with core end processing	1x (0.5 ... 1.0 mm²), 2x (0.5 ... 1.0 mm²)
• for AWG cables solid	1x (20 ... 16), 2x (20 ... 16)
• for AWG cables stranded	1x (20 ... 16), 2x (20 ... 16)
<b>Approvals Certificates</b>	
<b>General Product Approval</b>	<b>EMV</b>



[Confirmation](#)



Functional Safety	Test Certificates	other	Environment	Industrial Communication
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[Type Examination Certificate](#)

[Type Test Certificates/Test Report](#)

[Confirmation](#)

[Environmental Confirmations](#)



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=3SK2511-2FA10>

Cax online generator

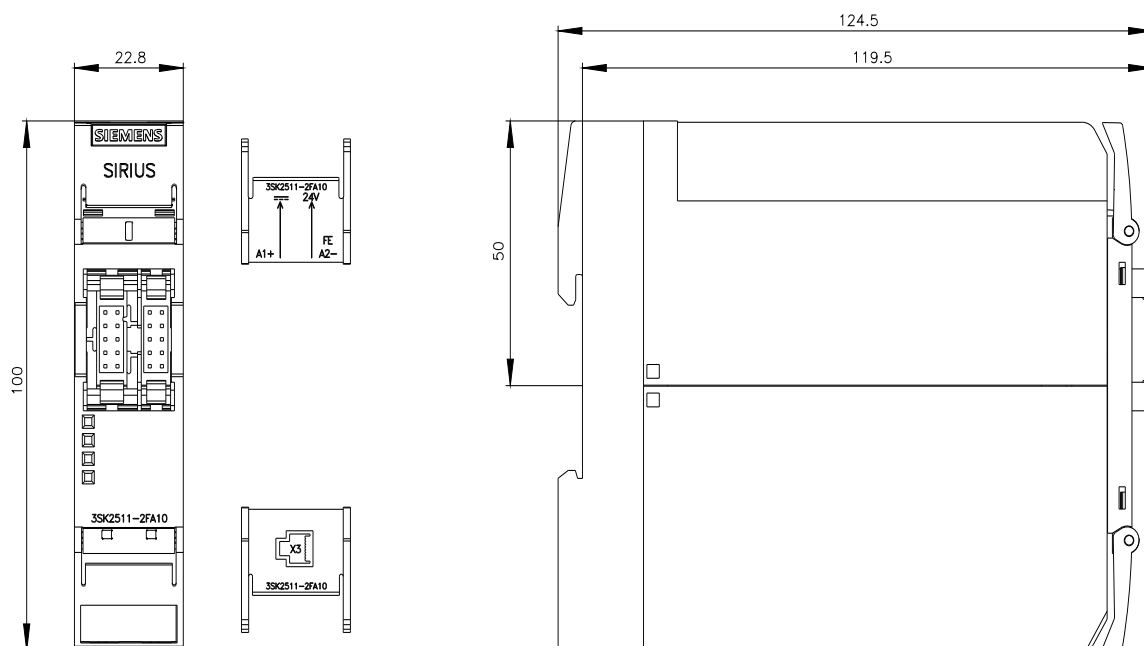
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SK2511-2FA10>

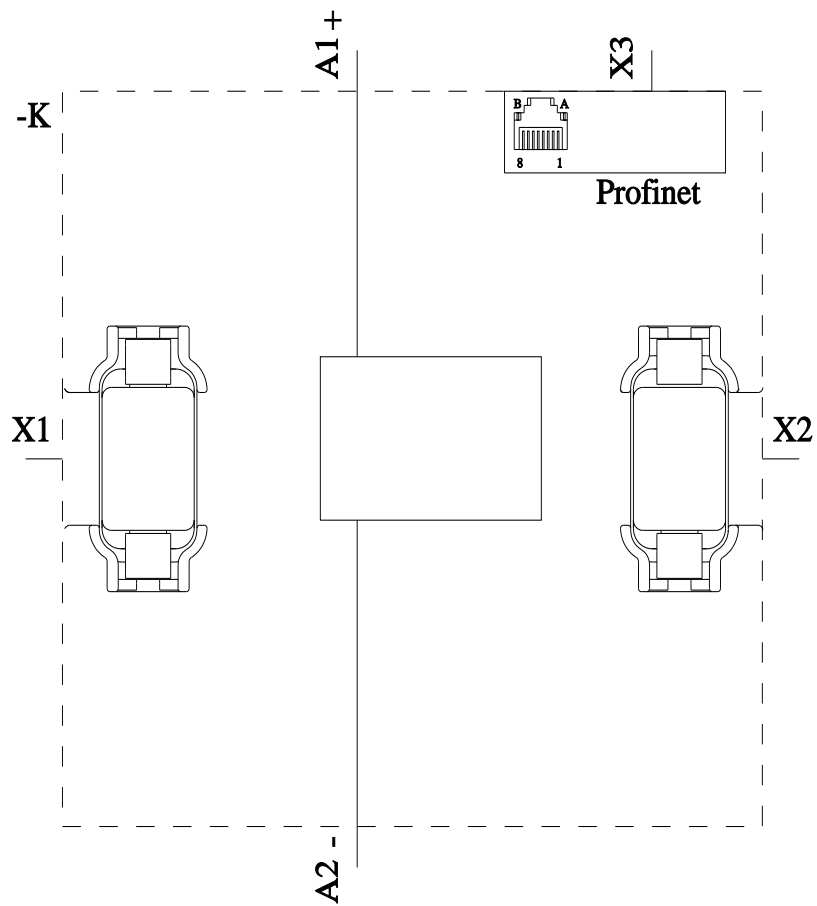
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3SK2511-2FA10>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SK2511-2FA10&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SK2511-2FA10&lang=en)





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