



### Main

Range of product	Interface for discrete signals
Product or component type	Slim solid state input interface module
Contacts type and composition	1 NC
[Uc] control circuit voltage	24 V
Control circuit type	DC
Maximum [In] rated current	12 MA
Reverse polarity protection	Control circuit: internal Output circuit: internal
Short-circuit protection	0.25 A external fuse fast blow (Ik <= 100 A DC)
Local signalling	1 LED for control signal state
Sale per indivisible quantity	5
Width pitch dimension	9.5 Mm

### Complementary

Control circuit voltage limits	28.8 V
Voltage state 1 guaranteed	16.9 V
Current state 1 guaranteed	7.7 mA
Voltage state 0 guaranteed	5.6 V
Current state 0 guaranteed	2 mA
[Ue] rated operational voltage	5...48 V
Output circuit type	DC
Rated operational voltage limits	2...60 V
Maximum switching current	50 MA
Minimum switching current	1 MA
Residual current	0.1 MA at state 0
Drop-out voltage	1 V at state 1
Response time	<= 0.05 ms from state 0 to state 1 Ue <= 30 V and Ie >= 5 mA <= 0.4 ms from state 1 to state 0 Ue <= 30 V and Ie >= 5 mA
Switching frequency	<= 1000 Hz 50 % Ue <= 30 V and Ie >= 5 mA
[Ui] rated insulation voltage	250 V conforming to VDE 0110 group C 300 V conforming to IEC 60947-1
Connections - terminals	Screw clamp terminal
Flame retardance	V0 conforming to UL 94
Cable cross section	0.34...2.5 Mm <sup>2</sup> , 1 or 2 wires flexible with cable end 0.6...2.5 Mm <sup>2</sup> , 1 or 2 wires flexible without cable end 0.27...4 Mm <sup>2</sup> , 1 wire rigid
Operating position	Any position
Installation category	II conforming to IEC 60947-1

Mounting support	Symmetrical DIN rail Asymmetrical DIN rail Combination rail
Net weight	0.029 Kg

## Environment

Dielectric strength	2500 V between wired interface and earth for 1 minute 4000 V between I/O for 1 minute
Standards	IEC 60947-5-1
Product certifications	DNV LROS (Lloyds register of shipping) CSA BV UL
IP degree of protection	IP20 conforming to IEC 60529
Protective treatment	TC
Fire resistance	960 °C conforming to IEC 60695-2-1
Shock resistance	30 gn for 11 ms conforming to IEC 60068-2-27
Vibration resistance	5 gn conforming to IEC 68-2-6 (f = 10...150 Hz)
Electromagnetic compatibility	Electromagnetic field immunity test: level 3 10 V/m between 27...1000 MHz conforming to IEC 61000-4-3 Electrostatic discharge immunity test: level 3 8 kV conforming to IEC 61000-4-2 Fast transients immunity test: level 3 on input/output 1 kV conforming to IEC 61000-4-4 Fast transients immunity test: level 3 on power supply 2 kV conforming to IEC 61000-4-4 1.2/50 µs shock waves immunity test conforming to IEC 60947-1
Ambient air temperature for operation	-25...70 °C at Us -5...55 °C unrestricted operation
Ambient air temperature for storage	-40...80 °C
Operating altitude	<= 300 m
Pollution degree	2 conforming to IEC 60947-1

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	36 G
Package 1 Height	7 Cm
Package 1 width	9 Cm
Package 1 Length	11.1 Cm
Unit Type of Package 2	BB1
Number of Units in Package 2	5
Package 2 Weight	184 G
Package 2 Height	7 Cm
Package 2 width	9 Cm
Package 2 Length	11.1 Cm
Unit Type of Package 3	S01
Number of Units in Package 3	25
Package 3 Weight	1.1 Kg
Package 3 Height	15 Cm
Package 3 width	15 Cm
Package 3 Length	40 Cm

## Offer Sustainability

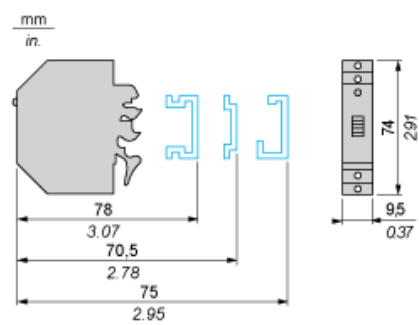
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

## Contractual warranty

Warranty	18 months
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Slim Solid-State Interface Module

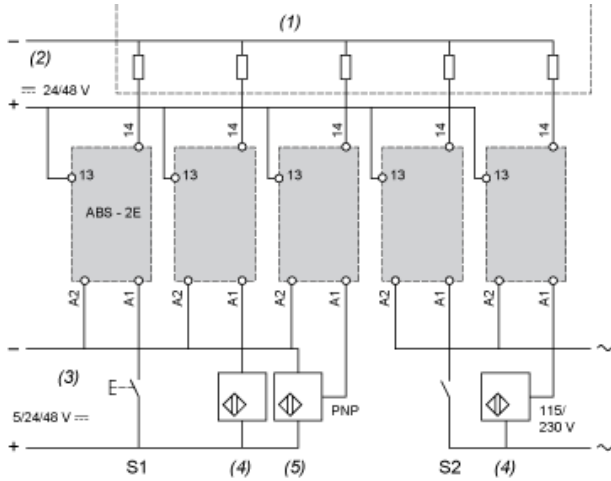
Dimensions



Slim Solid-State Interface Module

Example of Application with PLC

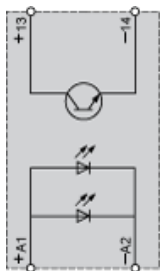
Interfacing PLC discrete inputs



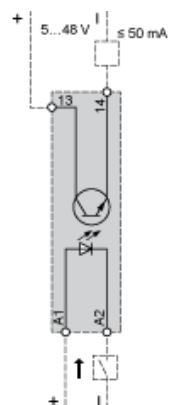
- S1, S2 pushbuttons series contacts
- (1) PLC positive logic discrete inputs
- (2) Processing power supply
- (3) Process power supply
- (4) 2-wire sensors
- (5) 3-wire sensors

Solid-State Input Module

Circuit Diagram



Wiring Diagram



Product Life Status : Commercialised