



### Main

Range of product	Interface for discrete signals
Product or component type	Slim electromechanical input interface module
Contacts type and composition	1 NO
[Uc] control circuit voltage	230...240 V
Control circuit type	AC
Control circuit frequency	50/60 Hz
Width pitch dimension	9.5 mm
Maximum [In] rated current	0.015 A
Short-circuit protection	2 A external fuse type fast blow
[Ith] conventional free air thermal current	1 A conforming to IEC 60947-1
Local signalling	Green LED for control signal state
Quantity per set	Set of 5

### Complementary

Control circuit voltage limits	264 V
Connections - terminals	Screw clamp terminal
Operating threshold	186 V
Drop-out voltage	48 V
Holding current	2.5 mA
Power dissipation in W	0.54 W 50 Hz 0.77 W 60 Hz
Maximum switching voltage	125 V DC 140 V AC
[Ue] rated operational voltage	<= 100 V DC conforming to IEC 60947-5-1 for built-in contacts <= 127 V AC conforming to IEC 60947-5-1 for built-in contacts
Network frequency	50/60 Hz
[Ie] rated operational current	1 A AC-12 Ue: 127 V per 1000000 cycles conforming to IEC 60947-5-1 1 A DC-12 Ue: 24 V per 1000000 cycles conforming to IEC 60947-5-1 1 A DC-13 Ue: 24 V per 1000000 cycles conforming to IEC 60947-5-1 0.5 A AC-14 Ue: 127 V per 1000000 cycles conforming to IEC 60947-5-1 0.5 A AC-15 Ue: 127 V per 1000000 cycles conforming to IEC 60947-5-1
Minimum switching current	1 mA
Minimum switching voltage	5 V
Electrical reliability	1e-008
Operating time	<= 30 ms between de-energisation of coil and closing of NO contact AC <= 30 ms between energisation of coil and closing of NO contact AC
Contact bounce time	<= 5 ms
Operating rate in Hz	10 Hz at no-load 0.5 Hz at Ie
Mechanical durability	20000000 cycles
[Ui] rated insulation voltage	250 V conforming to VDE 0110 group C 300 V conforming to IEC 60947-1
Flame retardance	V0 conforming to UL 94
Cable cross section	0.27...4 Mm <sup>2</sup> , 1 wire rigid 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

Operating position	Any position
Installation category	II conforming to IEC 60947-1
Mounting support	Combination rail Asymmetrical DIN rail Symmetrical DIN rail
Net weight	0.036 kg

## Environment

Immunity to microbreaks	10 ms
Dielectric strength	2000 V between coil circuit and contact circuits 2500 V between wired interface and earth 750 V between open contacts
Standards	IEC 60947-5-1
Product certifications	UL DNV LROS (Lloyds register of shipping) CSA BV
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	3 gn conforming to IEC 60068-2-6 (f = 10...150 Hz)
Electromagnetic compatibility	1.2/50 µs shock waves immunity test conforming to IEC 947-1 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 Rapid transients immunity test, level 3 on input/output 1 kV conforming to IEC 61000-4-4 Rapid transients immunity test, level 3 on power supply 2 kV conforming to IEC 61000-4-4
Ambient air temperature for operation	-25...70 °C at Us -5...40 °C unrestricted operation -5...55 °C from 0.85...1.1 Us
Ambient air temperature for storage	-40...80 °C
Operating altitude	<= 3000 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	44 g
Package 1 Height	7 cm
Package 1 width	9 cm
Package 1 Length	10.8 cm
Unit Type of Package 2	BB1
Number of Units in Package 2	5
Package 2 Weight	222 g
Package 2 Height	7 cm
Package 2 width	9 cm
Package 2 Length	10.8 cm
Unit Type of Package 3	S02
Number of Units in Package 3	75
Package 3 Weight	3.81 kg
Package 3 Height	15 cm
Package 3 width	30 cm
Package 3 Length	40 cm

## Offer Sustainability

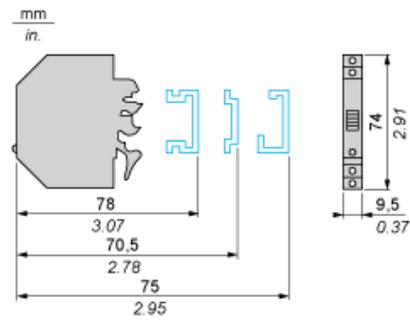
Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</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 Electromechanical Interface Module

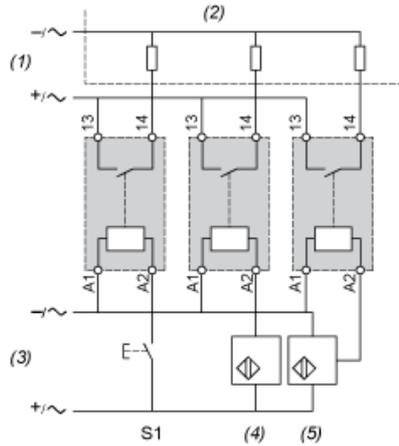
Dimensions



Slim Electromechanical Interface Module

Example of Application with PLC

Interfacing PLC discrete inputs



ABR 2E\*\*\*\*

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

Slim Electromechanical Interface Module

Circuit Diagram

1 N/O

