



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	120...127 V
Control circuit type	AC/DC
Control circuit frequency	60 Hz
Width pitch dimension	9.5 mm
[In] rated current	<= 0.016 A
Short circuit protection	2 A external fuse fast blow
[Ith] conventional free air thermal current	1 A conforming to IEC 60947-1
Local signalling	1 LED indicating control signal state
Quantity per set	Set of 5

Complementary

Control voltage limits	140 V
Connections - terminals	Screw clamp terminal
Operating threshold	97 V
Drop-out voltage	<= 25.4 V
Holding current	2.5 mA
Power dissipation in W	0.73 W
Maximum switching voltage	140 V AC 125 V DC
[Ue] rated operational voltage	<= 127 V AC conforming to IEC 60947-5-1 for built-in contacts <= 100 V DC conforming to IEC 60947-5-1 for built-in contacts
Network frequency	50/60 Hz
[Ie] rated operational current	0.5 A AC-15 Ue: 127 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 1 A DC-13 Ue: 24 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 AC-12 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	<= 6 ms between de-energisation of coil and closing of NO contact DC <= 30 ms between energisation of coil and closing of NO contact AC <= 30 ms between de-energisation of coil and closing of NO contact AC <= 10 ms between energisation of coil and closing of NO contact DC
Contact bounce time	<= 5 ms
Operating rate in Hz	0.5 Hz at Ie 10 Hz at no-load
Mechanical durability	>= 20000000 cycles
[Ui] rated insulation voltage	300 V conforming to IEC 60947-1 250 V conforming to VDE 0110 group C
Flame retardance	V0 conforming to UL 94
Cable cross section	0.6...2.5 mm², 1 or 2 wires flexible without cable end 0.34...2.5 mm², 1 or 2 wires flexible with cable end 0.27...4 mm², 1 wire rigid
Operating position	Any position

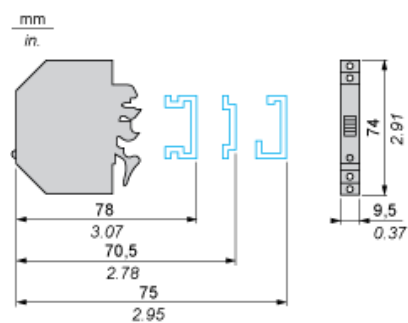
Installation category	II conforming to IEC 60947-1
Mounting support	Asymmetrical DIN rail Combination rail Symmetrical DIN rail
Product weight	0.035 kg

Environment

Immunity to microbreaks	10 ms
Dielectric strength	750 V between open contacts 2500 V between wired interface and earth 2000 V between coil circuit and contact circuits
Standards	IEC 60947-5-1
Product certifications	BV CSA DNV LROS (Lloyds register of shipping) 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	3 gn (f = 10...150 Hz) conforming to IEC 60068-2-6
Electromagnetic compatibility	Rapid transients immunity test level 3, on power supply 2 kV conforming to IEC 61000-4-4 Rapid transients immunity test level 3, on input/output 1 kV conforming to IEC 61000-4-4 Electrostatic discharge immunity test level 3, 8 kV conforming to IEC 61000-4-2 Electromagnetic field immunity test level 3, 10 V/m between 27...1000 MHz conforming to IEC 61000-4-3 1.2/50 µs shock waves immunity test, 2.5 kV for U < 300 V conforming to IEC 947-1 1.2/50 µs shock waves immunity test, 1.5 kV for U < 150 V conforming to IEC 947-1 1.2/50 µs shock waves immunity test, 0.5 kV for U < 50 V conforming to IEC 947-1
Ambient air temperature for operation	-5...55 °C from 0.85...1.1 Us -5...40 °C unrestricted operation -25...70 °C at Us
Ambient air temperature for storage	-40...80 °C
Operating altitude	<= 3000 m
Pollution degree	2 conforming to IEC 60947-1

Slim Electromechanical Interface Module

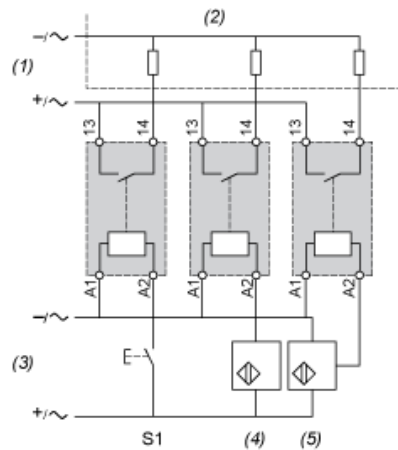
Dimensions



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

