



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	24 V
Control circuit type	DC
Width pitch dimension	0.37 in (9.5 mm)
Maximum [In] rated current	0.0195 A
Reverse polarity protection	Control circuit internal
Short-circuit protection	2 A external fuse fast blow
[Ith] conventional free air thermal current	1 A IEC 60947-1
Local signalling	For control signal state green LED
Quantity per Set	Set of 5

Complementary

Control circuit voltage limits	28.8 V
Connections - Terminals	Screw clamp terminal
Operating threshold	16.9 V
Drop-out voltage	3.8 V
Holding Current	2 mA
Power dissipation in W	0.45 W
Maximum switching voltage	125 V DC 140 V AC
[Ue] rated operational voltage	<= 100 V DC IEC 60947-5-1 built-in contacts <= 127 V AC IEC 60947-5-1 built-in contacts
Network Frequency	50/60 Hz
[Ie] rated operational current	1 A AC-12 Ue: 127 V 1000000 cycles IEC 60947-5-1 1 A DC-12 Ue: 24 V 1000000 cycles IEC 60947-5-1 1 A DC-13 Ue: 24 V 1000000 cycles IEC 60947-5-1 0.5 A AC-14 Ue: 127 V 1000000 cycles IEC 60947-5-1 0.5 A AC-15 Ue: 127 V 1000000 cycles IEC 60947-5-1
Minimum switching current	1 mA
Minimum switching voltage	5 V
Electrical reliability	1e-008
Operating time	<= 10 ms between energisation of coil and closing of NO contact DC <= 6 ms between de-energisation of coil and closing of NO contact DC
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 VDE 0110 group C 300 V IEC 60947-1
Flame retardance	V0 conforming to UL 94
Cable cross section	0.00...0.01 In ² (0.27...4 mm ²), 1 wire rigid 0.00...0.00 In ² (0.34...2.5 mm ²), 1 or 2 wires flexible with cable end 0.00...0.00 in ² (0.6...2.5 mm ²), 1 or 2 wires flexible without cable end

Operating position	Any position
Installation category	II IEC 60947-1
Mounting Support	Combination rail Symmetrical DIN rail Asymmetrical DIN rail
Net Weight	0.07 lb(US) (0.032 kg)

Environment

Immunity to microbreaks	1 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	DNV LROS (Lloyds register of shipping) UL CSA BV
IP degree of protection	IP20 conforming to IEC 60529
Protective treatment	TC
Fire resistance	1760 °F (960 °C) IEC 60695-2-1
Shock resistance	30 gn 11 ms IEC 60068-2-27
Vibration resistance	3 gn 10...150 Hz)IEC 60068-2-6
Electromagnetic compatibility	1.2/50 µs shock waves immunity test IEC 947-1 Electromagnetic field immunity test, level 3 10 V/m between 27...1000 MHz IEC 61000-4-3 Electrostatic discharge immunity test, level 3 8 kV IEC 61000-4-2 Rapid transients immunity test, level 3 on input/output 1 kV IEC 61000-4-4 Rapid transients immunity test, level 3 on power supply 2 kV IEC 61000-4-4
Ambient Air Temperature for Operation	-13...158 °F (-25...70 °C) at Us 23...104 °F (-5...40 °C) unrestricted operation 23...131 °F (-5...55 °C) from 0.85...1.1 Us
Ambient Air Temperature for Storage	-40...176 °F (-40...80 °C)
Operating altitude	<= 9842.52 ft (3000 m)
Pollution degree	2 IEC 60947-1

Ordering and shipping details

Category	22375 - INTERFACE MODULE(ABA,R,S)
Discount Schedule	CP2
GTIN	3389110651416
Nbr. of units in pkg.	1
Package weight(Lbs)	1.41 oz (40 g)
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	2.76 in (7 cm)
Package 1 width	3.54 in (9 cm)
Package 1 Length	4.25 in (10.8 cm)
Unit Type of Package 2	BB1
Number of Units in Package 2	5
Package 2 Weight	7.16 oz (203 g)
Package 2 Height	2.76 in (7 cm)
Package 2 width	3.54 in (9 cm)
Package 2 Length	4.25 in (10.8 cm)
Unit Type of Package 3	S02
Number of Units in Package 3	75
Package 3 Weight	7.54 lb(US) (3.42 kg)
Package 3 Height	5.91 in (15 cm)

Package 3 width	11.81 in (30 cm)
Package 3 Length	15.75 in (40 cm)

Offer Sustainability

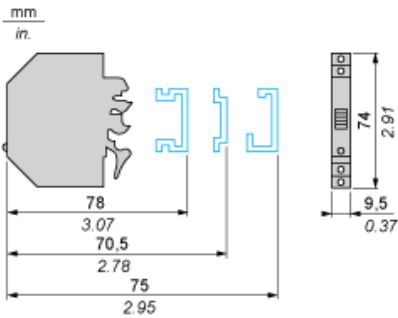
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
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

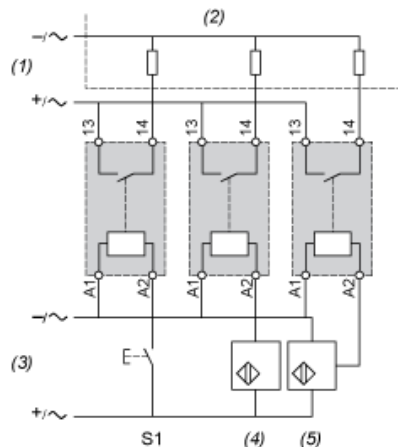
Dimensions



Slim Electromechanical Interface Module

Example of Application with PLC

Interfacing PLC discrete inputs



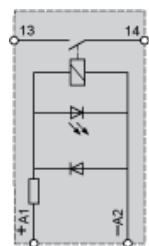
ABR 2E****

- 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



Mouser Electronics

Authorized Distributor

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[ABR2E112B](#)