



Main

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|---------------------------------------------|-----------------------------------------------|
| 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 |
| Maximum [In] rated current | 0.016 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

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| Control circuit 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 | 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 | <= 10 ms between energisation of coil and closing of NO contact DC <= 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 <= 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 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 ² , 1 wire rigid 0.34...2.5 Mm ² , 1 or 2 wires flexible with cable end 0.6...2.5 mm ² , 1 or 2 wires flexible without cable end |

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|-----------------------|-------------------------------------------------------------------|
| Operating position | Any position |
| Installation category | II conforming to IEC 60947-1 |
| Mounting support | Asymmetrical DIN rail Symmetrical DIN rail Combination rail |
| Net weight | 0.035 kg |

Environment

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|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 CSA LROS (Lloyds register of shipping) DNV 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

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|------------------------------|---------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Weight | 43 g |
| Package 1 Height | 9 cm |
| Package 1 width | 7.2 cm |
| Package 1 Length | 10.7 cm |

Offer Sustainability

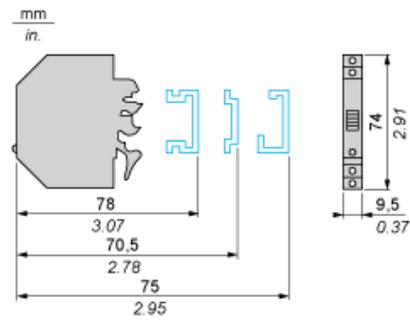
| | |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Pro-active compliance (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

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| Warranty | 18 months |
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Slim Electromechanical Interface Module

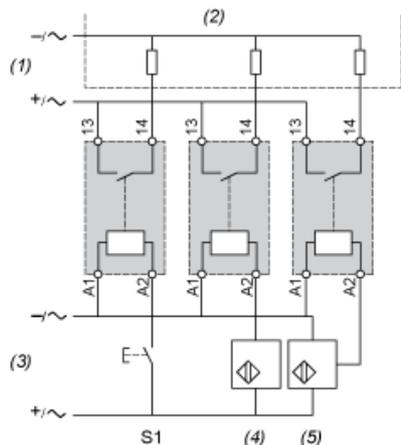
Dimensions



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

