

Main

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|---|---|
| Range of Product | Interface for discrete signals |
| Product or Component Type | Slim electromechanical output interface module |
| Product Specific Application | For very low level switching |
| Contacts type and composition | 1 C/O |
| [Uc] control circuit voltage | 24 V |
| Control circuit type | DC |
| Width pitch dimension | 0.69 in (17.5 mm) |
| Maximum [In] rated current | 23 mA |
| Reverse polarity protection | With |
| Short-circuit protection | 0.4 A external fuse fast blow I _k ≤ 1 kA AC and I _k ≤ 100 A DC) |
| [Ith] conventional free air thermal current | 0.05 A IEC 60947-1 |
| Local signalling | For control signal state green LED |

Complementary

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|--------------------------------|---|
| Control circuit voltage limits | 28.8 V 16.9 V |
| Connections - Terminals | Screw clamp terminal |
| Drop-out voltage | 3.8 V |
| Holding Current | 2 mA |
| Power dissipation in W | 0.55 W |
| Maximum switching voltage | 60 V AC 60 V DC |
| [Ue] rated operational voltage | ≤ 48 V AC IEC 60947-5-1 ≤ 48 V DC IEC 60947-5-1 |
| Network Frequency | 50/60 Hz |
| Minimum switching current | 0.01 mA |
| Minimum switching voltage | 0.01 V |
| Electrical reliability | ≤ 0.00000001 |
| Operating time | ≤ 6 ms between de-energisation of coil and closing of NO contact DC ≤ 6 ms between energisation of coil and closing of NO contact DC ≤ 6 ms between de-energisation of coil and closing of NC contact ≤ 6 ms between energisation of coil and closing of NC contact |
| Contact bounce time | ≤ 2 ms |
| Operating rate in Hz | 10 Hz at no-load |
| 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...0.00 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 0.00...0.01 in ² (0.27...4 mm ²), 1 wire rigid |
| Operating position | Any position |
| Installation category | II IEC 60947-1 |

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|------------------|---|
| Mounting Support | Combination rail Symmetrical DIN rail Asymmetrical DIN rail |
| Net Weight | 0.11 lb(US) (0.048 kg) |

Environment

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|---------------------------------------|---|
| Immunity to microbreaks | 1 ms |
| Dielectric strength | 1000 V for 1 minute between open contacts 1500 V between coil circuit and contact circuits 2500 V for 1 minute between wired interface and earth |
| Standards | IEC 60947-5-1 |
| Product Certifications | DNV CSA LROS (Lloyds register of shipping) UL 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 | 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 Fast transients immunity test level 3 on input/output 1 kV IEC 61000-4-4 Fast transients immunity test level 3 on power supply 2 kV IEC 61000-4-4 1.2/50 µs shock waves immunity test IEC 60947-1 |
| Ambient Air Temperature for Operation | -13...131 °F (-25...55 °C) at Us -13...158 °F (-25...70 °C) at Us with 8 mm space between ABR2S1... 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

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|-----------------------|-----------------------------------|
| Category | 22375 - INTERFACE MODULE(ABA,R,S) |
| Discount Schedule | CP2 |
| GTIN | 3389110651508 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 2.05 oz (58 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 | 10.37 oz (294 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 | S01 |
| Number of Units in Package 3 | 25 |
| Package 3 Weight | 3.75 lb(US) (1.699 kg) |
| Package 3 Height | 5.91 in (15 cm) |

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|------------------|------------------|
| Package 3 width | 5.91 in (15 cm) |
| Package 3 Length | 15.75 in (40 cm) |

Offer Sustainability

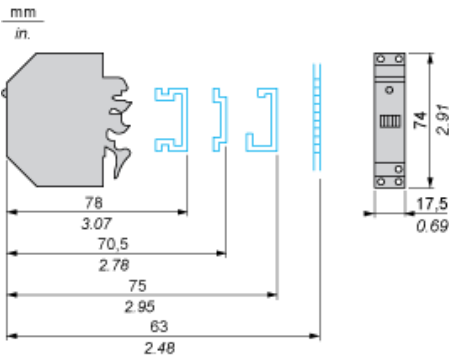
| | |
|----------------------------|---|
| Sustainable offer status | Green Premium product |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive 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

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| Warranty | 18 months |
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Slim Electromechanical Interface Module

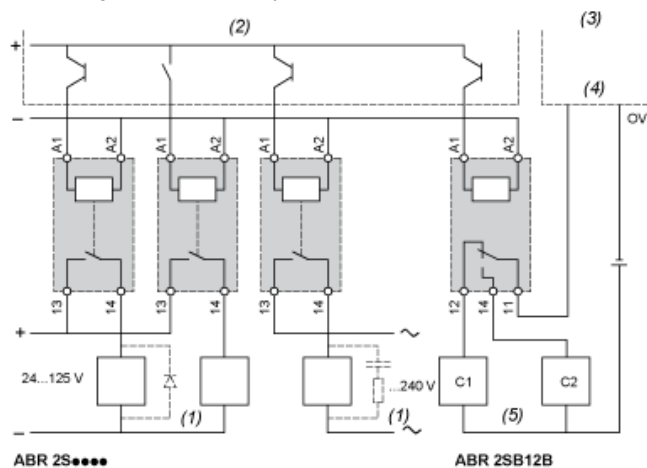
Dimensions



Slim Electromechanical Interface Module

Example of Application with PLC

Interfacing PLC discrete outputs

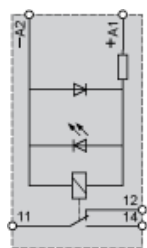


- (1) Essential on inductive loads (can be replaced with peak limiter)
- (2) PLC positive logic transistor (or relay) outputs
- (3) PLC analog inputs
- (4) Channel X
- (5) Analog sensors

Slim Electromechanical Interface Module

Circuit Diagram

1 C/O



Mouser Electronics

Authorized Distributor

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[ABR2SB312B](#)