



Main

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| Range of product | Interface for discrete signals |
| Product or component type | Electromechanical input interface module |
| Contacts type and composition | 1 NO |
| [Uc] control circuit voltage | 48 V |
| Control circuit type | AC/DC |
| Control circuit frequency | 50/60 Hz |
| Width pitch dimension | 0.69 in (17.5 mm) |
| [In] rated current | <= 32 mA AC <= 36 mA DC |
| Reverse polarity protection | With |
| Short-circuit protection | 16 A external fuse gF (Ik <= 2.5 kA AC and Ik <= 100 A DC) 16 A external fuse gG (Ik <= 2.5 kA AC and Ik <= 100 A DC) |
| [Ith] conventional free air thermal current | 2 A conforming to IEC 60947-1 |
| Local signalling | Green mechanical indicator for position of contacts and 1 green LED control signal state |

Complementary

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| Control circuit voltage limits | 53 V energization threshold: 34 V |
| Housing colour | Grey |
| Connections - terminals | Screw clamp terminal |
| Drop-out voltage | <= 8.5 V |
| Holding current | >= 4.7 mA DC >= 5.4 mA AC |
| Power dissipation in W | <= 1.5 W |
| Maximum switching voltage | 125 V DC 252 V AC |
| System Voltage | <= 125 V DC conforming to IEC 60947-5-1 <= 230 V AC conforming to IEC 60947-5-1 |
| Network frequency | 50/60 Hz |
| [Ie] rated operational current | 1 A AC-13 Ue: 230 V per 1000000 cycles conforming to IEC 60947-5-1 1 A AC-14 Ue: 230 V per 1000000 cycles conforming to IEC 60947-5-1 1 A AC-15 Ue: 230 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 2 A AC-12 Ue: 230 V per 1000000 cycles conforming to IEC 60947-5-1 2 A DC-12 Ue: 24 V per 1000000 cycles conforming to IEC 60947-5-1 |
| Minimum switching current | 3 mA |
| Minimum switching voltage | 17 V |
| Electrical reliability | <= 0.00000001 |
| Operating time | <= 12 ms between de-energisation of coil and closing of NC contact <= 12 ms between de-energisation of coil and closing of NO contact <= 12 ms between energisation of coil and closing of NC contact <= 12 ms between energisation of coil and closing of NO contact |
| Contact bounce time | <= 3 ms |
| Operating rate in Hz | <= 6 Hz at no-load <= 0.5 Hz at Ie |
| Mechanical durability | >= 20000000 cycles |
| [Ui] rated insulation voltage | 250 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...0.01 in ² (0.27...4 mm ²), 1 wire rigid 0...0 in ² (0.34...2.5 mm ²), 1 or 2 wires flexible with cable end |

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| | 0...0 in ² (0.6...2.5 mm ²), 1 or 2 wires flexible without cable end 0...0 in ² (0.27...2.5 mm ²), 2 wires 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 | 0.21 lb(US) (0.095 kg) |

Environment

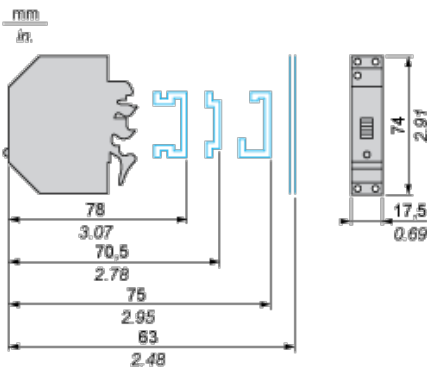
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|---------------------------------------|--|
| immunity to microbreaks | 10 ms |
| dielectric strength | 1500 V between independent contacts 2500 V between wired interface and earth 4000 V between coil circuit and contact circuits |
| standards | IEC 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 | 1562 °F (850 °C) conforming to IEC 60695-2-1 |
| shock resistance | 50 gn 11 ms conforming to IEC 60068-2-27 |
| vibration resistance | 6 gn (f = 10...55 Hz) conforming to IEC 60068-2-6 |
| electromagnetic compatibility | 1.2/50 ms shock waves immunity test, 0.25 kV for U > 50 V conforming to IEC 255-4 1.2/50 ms shock waves immunity test, 0.5 kV for U < 50 V conforming to IEC 255-4 Electrostatic discharge immunity test level 3, 8 kV conforming to IEC 61000-4-2 Rapid transients immunity test, on input/output 1 kV conforming to IEC 61000-4-4 Rapid transients immunity test, on power supply 2 kV conforming to IEC 61000-4-4 |
| ambient air temperature for operation | -4...140 °F (-20...60 °C) at Un 23...104 °F (-5...40 °C) unrestricted operation |
| ambient air temperature for storage | -40...158 °F (-40...70 °C) |
| operating altitude | <= 9842.52 ft (3000 m) |
| pollution degree | 3 conforming to IEC 60947-5-1 |

Contractual warranty

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| Warranty period | 18 months |
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Electromechanical Interface Module

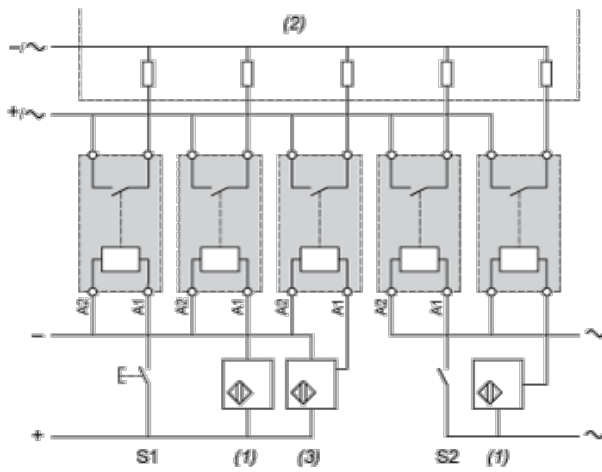
Dimensions



Electromechanical Interface Module

Example of Application with PLC

Interfacing PLC discrete inputs



- S1, Pushbuttons series contacts
 S2
 (1) 2-wire sensors
 (2) PLC positive logic discrete inputs
 (3) 3-wire sensors

Interface with Mechanical Indication + LED

Circuit Diagram

