



## Main

|                                             |                                                                                                                          |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Range of product                            | Interface for discrete signals                                                                                           |
| Product or component type                   | Electromechanical input interface module                                                                                 |
| Contacts type and composition               | 1 C/O                                                                                                                    |
| [Uc] control circuit voltage                | 230...240 V                                                                                                              |
| Control circuit type                        | AC                                                                                                                       |
| Control circuit frequency                   | 50/60 Hz                                                                                                                 |
| Width pitch dimension                       | 0.69 in (17.5 mm)                                                                                                        |
| [In] rated current                          | <= 7 mA AC                                                                                                               |
| Reverse polarity protection                 | With                                                                                                                     |
| Short-circuit protection                    | 16 A external fuse gF (Ik <= 2.5 kA AC and Ik <= 100 A DC)<br>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

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Control circuit voltage limits | 264 V energization threshold: 170 V                                                                                                                                                                                                                                                                                                                                                                                            |
| Housing colour                 | Grey                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Connections - terminals        | Screw clamp terminal                                                                                                                                                                                                                                                                                                                                                                                                           |
| Drop-out voltage               | <= 68 V                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Holding current                | >= 2 mA AC                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Power dissipation in W         | <= 1.5 W                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Maximum switching voltage      | 125 V DC<br>252 V AC                                                                                                                                                                                                                                                                                                                                                                                                           |
| System Voltage                 | <= 125 V DC conforming to IEC 60947-5-1<br><= 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<br>1 A AC-14 Ue: 230 V per 1000000 cycles conforming to IEC 60947-5-1<br>1 A AC-15 Ue: 230 V per 1000000 cycles conforming to IEC 60947-5-1<br>1 A DC-13 Ue: 24 V per 1000000 cycles conforming to IEC 60947-5-1<br>2 A AC-12 Ue: 230 V per 1000000 cycles conforming to IEC 60947-5-1<br>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<br><= 12 ms between de-energisation of coil and closing of NO contact<br><= 12 ms between energisation of coil and closing of NC contact<br><= 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<br><= 0.5 Hz at Ie                                                                                                                                                                                                                                                                                                                                                                                          |
| Mechanical durability          | >= 10000000 cycles                                                                                                                                                                                                                                                                                                                                                                                                             |
| [Ui] rated insulation voltage  | 250 V conforming to IEC 60947-1<br>250 V conforming to VDE 0110 group C                                                                                                                                                                                                                                                                                                                                                        |
| Flame retardance               | V0 conforming to UL 94                                                                                                                                                                                                                                                                                                                                                                                                         |
| Cable cross section            | 0...0.01 in <sup>2</sup> (0.27...4 mm <sup>2</sup> ), 1 wire rigid<br>0...0 in <sup>2</sup> (0.34...2.5 mm <sup>2</sup> ), 1 or 2 wires flexible with cable end<br>0...0 in <sup>2</sup> (0.6...2.5 mm <sup>2</sup> ), 1 or 2 wires flexible without cable end<br>0...0 in <sup>2</sup> (0.27...2.5 mm <sup>2</sup> ), 2 wires rigid                                                                                           |

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|                       |                                                                   |
|-----------------------|-------------------------------------------------------------------|
| Operating position    | Any position                                                      |
| Installation category | II conforming to IEC 60947-1                                      |
| Mounting support      | Asymmetrical DIN rail<br>Combination rail<br>Symmetrical DIN rail |
| Product weight        | 0.21 lb(US) (0.095 kg)                                            |

## Environment

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| immunity to microbreaks               | 5 ms                                                                                                                                                                                                                                                                                                                                                                                                                             |
| dielectric strength                   | 1500 V between independent contacts<br>2500 V between wired interface and earth<br>4000 V between coil circuit and contact circuits                                                                                                                                                                                                                                                                                              |
| standards                             | IEC 60947-5-1                                                                                                                                                                                                                                                                                                                                                                                                                    |
| product certifications                | BV<br>CSA<br>DNV<br>LROS (Lloyds register of shipping)<br>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<br>1.2/50 ms shock waves immunity test, 0.5 kV for U < 50 V conforming to IEC 255-4<br>Electrostatic discharge immunity test level 3, 8 kV conforming to IEC 61000-4-2<br>Rapid transients immunity test, on input/output 1 kV conforming to IEC 61000-4-4<br>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<br>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                                                                                                                                                                                                                                                                                                                                                                                                    |

## Offer Sustainability

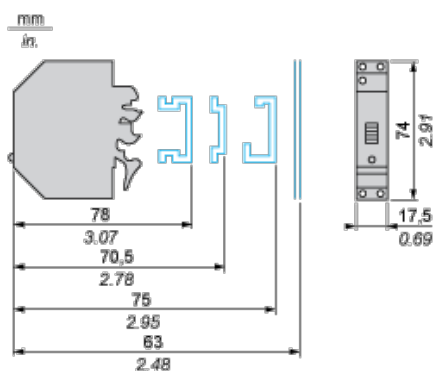
|                                                                                                                            |                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| WARNING: This product can expose you to chemicals including:                                                               | WARNING: This product can expose you to chemicals including:                                                               |
| Nickel compounds, which is known to the State of California to cause cancer, and                                           | Nickel compounds, which is known to the State of California to cause cancer, and                                           |
| Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. | Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. |
| For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                              | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                              |

## Contractual warranty

|                 |           |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

## Electromechanical Interface Module

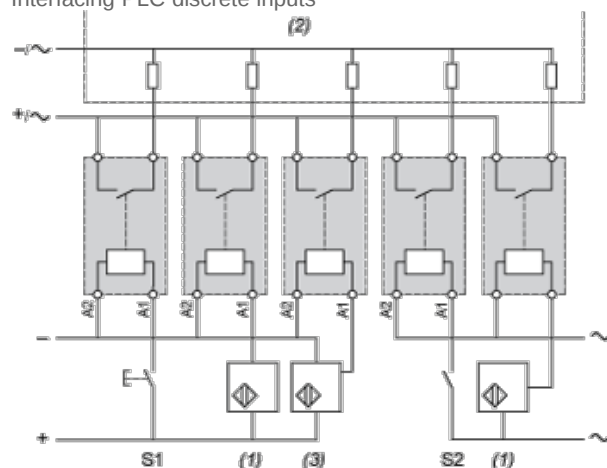
### Dimensions



## Electromechanical Interface Module

### Example of Application with PLC

Interfacing PLC discrete inputs



S1, Pushbuttons series contacts

S2

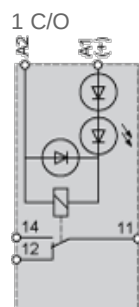
(1) 2-wire sensors

(2) PLC positive logic discrete inputs

(3) 3-wire sensors

## Interface with Mechanical Indication + LED

### Circuit Diagram





**Стандарт  
Электрон  
Связь**

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