



### 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	24 V
Control circuit type	AC/DC
Control circuit frequency	50/60 Hz
Width pitch dimension	17.5 mm
Maximum [In] rated current	55 mA AC 62 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

Control circuit voltage limits	30 V energization threshold: 16.5 V
Housing colour	Grey
Connections - terminals	Screw clamp terminal
Drop-out voltage	3.8 V
Minimum holding current	4.9 mA DC 5.2 mA AC
Maximum power dissipation in W	1.5 W
Maximum switching voltage	125 V DC 252 V AC
[Ue] rated operational 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	10000000 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	0.34...2.5 Mm <sup>2</sup> , 1 or 2 wires flexible with cable end 0.6...2.5 Mm <sup>2</sup> , 1 or 2 wires flexible without cable end 0.27...2.5 Mm <sup>2</sup> , 2 wires rigid 0.27...4 mm <sup>2</sup> , 1 wire rigid
Operating position	Any position
Installation category	II conforming to IEC 60947-1
Mounting support	Combination rail Asymmetrical DIN rail Symmetrical DIN rail
Net weight	0.095 kg

## Environment

Immunity to microbreaks	8 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	UL LROS (Lloyds register of shipping) DNV BV CSA
IP degree of protection	IP20 conforming to IEC 60529
Protective treatment	TC
Fire resistance	850 °C conforming to IEC 60695-2-1
Shock resistance	50 gn for 11 ms conforming to IEC 60068-2-27
Vibration resistance	6 gn conforming to IEC 60068-2-6 (f = 10...55 Hz)
Electromagnetic compatibility	1.2/50 ms shock waves immunity test 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	-20...60 °C at Un -5...40 °C unrestricted operation
Ambient air temperature for storage	-40...70 °C
Operating altitude	<= 3000 m
Pollution degree	3 conforming to IEC 60947-5-1

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	99 g
Package 1 Height	2 cm
Package 1 width	7 cm
Package 1 Length	7.7 cm
Unit Type of Package 2	S02
Number of Units in Package 2	50
Package 2 Weight	5.07 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 <a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)  <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	 <a href="#">Yes</a>
China RoHS Regulation	 <a href="#">China RoHS Declaration</a>
Environmental Disclosure	 <a href="#">Product Environmental Profile</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

## Contractual warranty

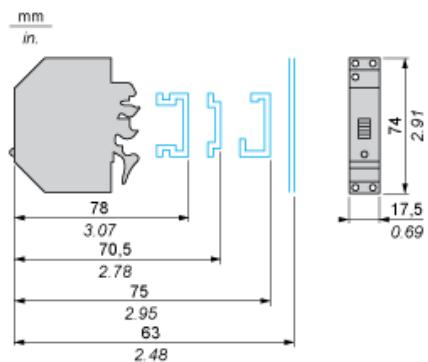
Warranty	18 months
----------	-----------

---

Electromechanical Interface Module

---

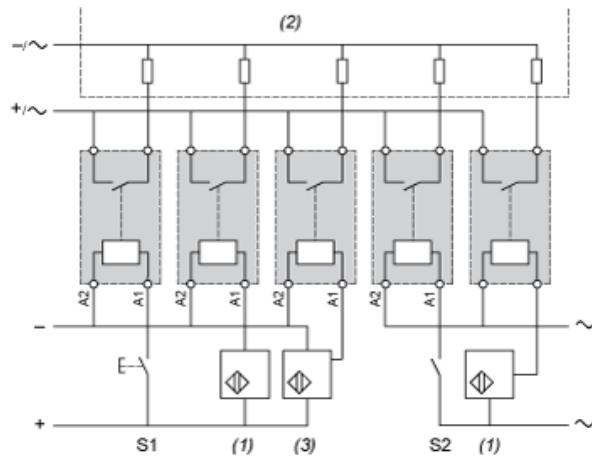
Dimensions



## 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

1 C/O

