

# input interface module - 17.5 mm electromechanical - 230/240 V AC -1 C/O

ABR1E301M

Discontinued on: Oct 1, 2021

(!) Discontinued

### 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	230240 V
Control Circuit Type	AC
Control Circuit Frequency	50/60 Hz
Width Pitch Dimension	17.5 mm
Maximum [In] Rated Current	5.5 mA AC
Reverse Polarity Protection	Without
Short-Circuit Protection	16 A external fuse gF (lk <= 2.5 kA AC and lk <= 100 A DC) 16 A external fuse gG (lk <= 2.5 kA AC and lk <= 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: 164 V
Housing Colour	Grey
Connections - Terminals	Screw clamp terminal
Drop-Out Voltage	78 V
Minimum Holding Current	1.5 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
[le] 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

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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 le
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	0.342.5 mm², 1 or 2 wires flexible with cable end 0.62.5 mm², 1 or 2 wires flexible without cable end 0.272.5 mm², 2 wires rigid 0.274 mm², 1 wire rigid
Operating Position	Any position
Installation Category	II conforming to IEC 60947-1
Mounting Support	Symmetrical DIN rail Asymmetrical DIN rail Combination rail
Net Weight	0.09 kg

## **Environment**

61000-4-2
C 61000-4-4
EC 61000-4-4

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2 cm
Package 1 Width	7 cm
Package 1 Length	7.7 cm
Package 1 Weight	98 a

## **Contractual warranty**

Warranty 18 months

## Sustainability

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

## Well-being performance



Mercury Free



Rohs Exemption Information

Yes

#### **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
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
Circularity Profile	No need of specific recycling operations
California Proposition 65	WARNING: This product can expose you to chemicals including: 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. For more information go to www.P65Warnings.ca.gov

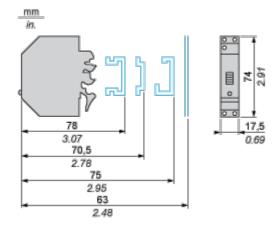
# Product data sheet

## ABR1E301M

## **Dimensions Drawings**

### **Electromechanical Interface Module**

#### **Dimensions**

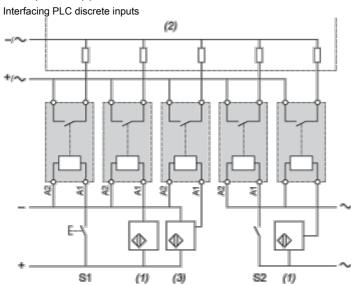


### ABR1E301M

#### Connections and Schema

#### **Electromechanical Interface Module**

### **Example of Application with PLC**



S1, S2 Pushbuttons series contacts

- (1) 2-wire sensors
- (2) PLC positive logic discrete inputs
- (3) 3-wire sensors

## **Interface with Mechanical Indication**

#### **Circuit Diagram**

