

# Product data sheet

Specifications



## input interface module - 17.5 mm - electromechanical - 115..127 V AC - 2 NO

ABR1E411F

⚠ 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	2 NO
[Uc] Control Circuit Voltage	115...127 V
Control Circuit Type	AC
Control Circuit Frequency	50/60 Hz
Width Pitch Dimension	17.5 mm
Maximum [In] Rated Current	8 mA AC
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	140 V energization threshold: 86 V
Housing Colour	Grey
Connections - Terminals	Screw clamp terminal
Drop-Out Voltage	34 V
Minimum Holding Current	2.4 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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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	0.34...2.5 mm², 1 or 2 wires flexible with cable end 0.6...2.5 mm², 1 or 2 wires flexible without cable end 0.27...2.5 mm², 2 wires rigid 0.27...4 mm², 1 wire rigid
Operating Position	Any position
Installation Category	II conforming to IEC 60947-1
Mounting Support	Symmetrical DIN rail Combination rail Asymmetrical DIN rail
Net Weight	0.095 kg

## Environment

Immunity To Microbreaks	6 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	CSA BV UL LROS (Lloyds register of shipping) DNV
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 Height	2 cm
Package 1 Width	7 cm
Package 1 Length	7.7 cm
Package 1 Weight	96 g

## Contractual warranty

Warranty	18 months
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## Sustainability

**Green Premium™** label is Schneider Electric's commitment to delivering products with best-in-class 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](#)

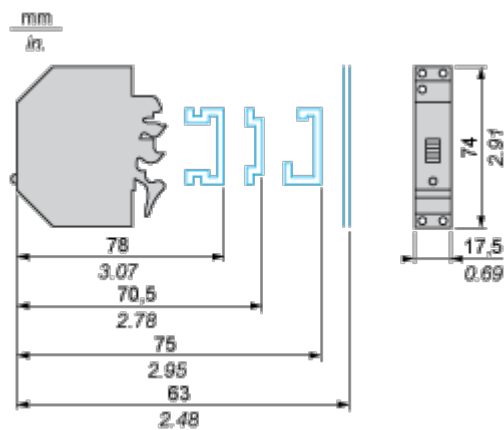
## Certifications & Standards

Reach Regulation	<a href="#">REACH Declaration</a>
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
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
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

Dimensions Drawings

Electromechanical Interface Module

Dimensions

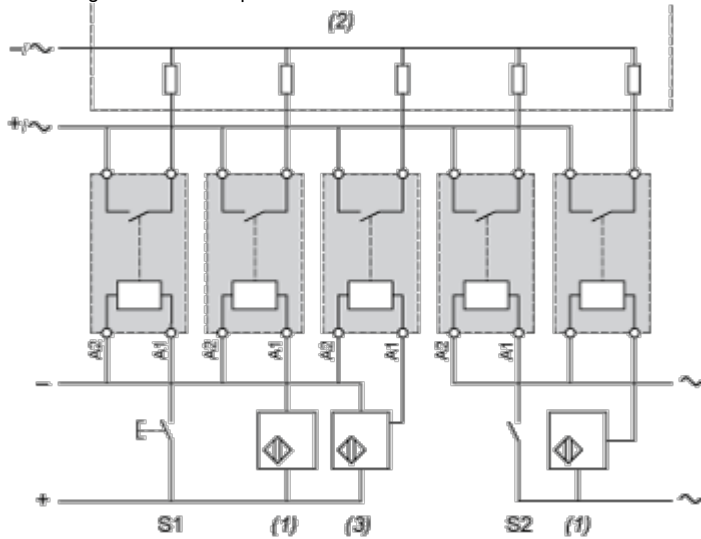


Connections and Schema

Electromechanical Interface Module

Example of Application with PLC

Interfacing PLC discrete inputs



S1, S2 Pushbuttons series contacts

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

Interface with Mechanical Indication + LED

Circuit Diagram

2 N/O

