Product data sheet Characteristics

ABS2EA01EF

input interface module - 9.5 mm - solid state -115..127 V AC 50 Hz

Main

Commercial Status	Commercialised
Range of product	Interface for discrete signals
Product or component type	Slim solid state input interface module
Contacts type and composition	1 NC
[Uc] control circuit voltage	115127 V
Control circuit type	AC
Control circuit frequen- cy	50 Hz
[In] rated current	<= 14 mA
Reverse polarity protection	Internal for output circuit
Short circuit protection	0.25 A external fuse fast blow (lk <= 100 A DC)
Local signalling	1 LED indicating control signal state
Sale per indivisible quantity	5
Width pitch dimension	9.5 mm

Complementary

Complementary	
Control voltage limits	140 V
Voltage state 1 guaranteed	86.3 V
Current state 1 guaranteed	8.4 mA
Voltage state 0 guaranteed	25.4 V
Current state 0 guaranteed	2.5 mA
[Ue] rated operational voltage	548 V
Output circuit type	DC
Rated operational voltage limits	260 V
Maximum switching current	50 mA
Minimum switching current	1 mA
Residual current	0.1 mA at state 0
Drop-out voltage	<= 1 V at state 1
Response time	<= 20 ms from state 1 to state 0 <= 10 ms from state 0 to state 1
Switching frequency	<= 25 Hz 50 %
[Ui] rated insulation voltage	300 V conforming to IEC 60947-1 250 V conforming to VDE 0110 group C
Connections - terminals	Screw clamp terminal
Flame retardance	V0 conforming to UL 94
Cable cross section	0.62.5 mm², 1 or 2 wires flexible without cable end 0.342.5 mm², 1 or 2 wires flexible with cable end 0.274 mm², 1 wire rigid
Operating position	Any position
Installation category	Il conforming to IEC 60947-1
Mounting support	Asymmetrical DIN rail Combination rail Symmetrical DIN rail
Product weight	0.032 kg

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not interested for a set of for determining suitability or intelability of these products for specific user applications. It is the documentation is not integrator to perform the appropriate and complete risk analysis, evaluating of the products with respect to the relevant specific application or use thereof. Neither Schmeider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Environment

Dielectric strength	4000 V between I/O for 1 minute 2500 V between wired interface and earth for 1 minute
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	960 °C conforming to IEC 60695-2-1
Shock resistance	30 gn for 11 ms conforming to IEC 60068-2-27
Vibration resistance	5 gn (f = 10150 Hz) conforming to IEC 60068-2-6
Electromagnetic compatibility	Fast transients immunity test level 3, on power supply 2 kV conforming to IEC 61000-4-4 Fast transients immunity test level 3, on input/output 1 kV conforming to IEC 61000-4-4 Electrostatic discharge immunity test level 3, 8 kV conforming to IEC 61000-4-2 Electromagnetic field immunity test level 3, 10 V/m between 271000 MHz conforming to IEC 61000-4-3 1.2/50 µs shock waves immunity test, 2.5 kV for U < 300 V conforming to IEC 60947-1 1.2/50 µs shock waves immunity test, 1.5 kV for U < 150 V conforming to IEC 60947-1 1.2/50 µs shock waves immunity test, 0.5 kV for U < 50 V conforming to IEC 60947-1
Ambient air temperature for operation	-555 °C unrestricted operation -2570 °C at Us
Ambient air temperature for storage	-4080 °C
Operating altitude	<= 300 m
Pollution degree	2 conforming to IEC 60947-1

Contractual warranty

Period 18 months

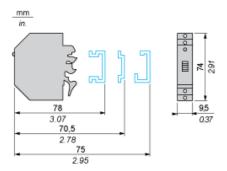


Product data sheet Dimensions Drawings

ABS2EA01EF

Slim Solid-State Interface Module

Dimensions

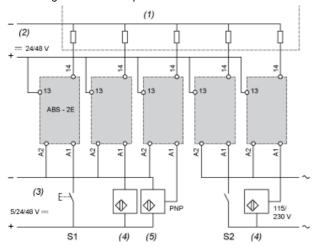


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Slim Solid-State Interface Module

Example of Application with PLC

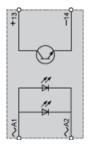
Interfacing PLC discrete inputs



- S1, Pushbuttons series contacts
- S2
- (1) (2) PLC positive logic discrete inputs
- Processing power supply
- (3) Process power supply
- (4) 2-wire sensors
- 3-wire sensors

Solid-State Input Module

Circuit Diagram



Wiring Diagram

