



Main

Range of Product	Interface for discrete signals
Product or Component Type	Slim solid state output interface module
Contacts type and composition	1 NC
[Uc] control circuit voltage	24 V
Control circuit type	DC
Maximum [In] rated current	12 mA
Reverse polarity protection	Control circuit internal Output circuit internal
Short-circuit protection	3.15 A external fuse fast blow I _k ≤ 1 kA AC and I _k ≤ 100 A DC)
[I _{th}] conventional free air thermal current	2 A 104 °F (40 °C)
Local signalling	Green mechanical indicator for position of contacts 1 green LED control signal state
Sale per indivisible quantity	5
Width pitch dimension	0.37 in (9.5 mm)

Complementary

Control circuit voltage limits	28.8 V
Voltage state 1 guaranteed	16.9 V
Current state 1 guaranteed	7.7 mA
Voltage state 0 guaranteed	5.6 V
Current state 0 guaranteed	2 mA
[U _e] rated operational voltage	5...48 V
Output circuit type	DC
Rated operational voltage limits	≤ 57.6 V
[I _e] rated operational current	1.5 A DC-12 vertical position, single product IEC 60947-5-1 1.5 A DC-13 vertical position, single product IEC 60947-5-1 0.6 A DC-14 vertical position, single product IEC 60947-5-1 0.6 A DC-14 vertical position, touching product IEC 60947-5-1 0.9 A DC-12 vertical position, touching product IEC 60947-5-1 0.9 A DC-13 vertical position, touching product IEC 60947-5-1
Minimum switching current	1 mA
Maximum residual current	1 mA
Drop-out voltage	1.5 V
Response time	≤ 0.05 ms from state 0 to state 1 ≤ 0.6 ms from state 1 to state 0
Switching frequency	≤ 1 Hz DC-14 module alone 40 % ≤ 6 Hz DC-13 module alone 40 % ≤ 700 Hz on resistive load 50 %
[U _i] rated insulation voltage	250 V VDE 0110 group C 300 V IEC 60947-1
Flame retardance	V0 conforming to UL 94
Cable cross section	0.00...0.00 In ² (0.6...2.5 mm ²), 1 or 2 wires flexible without cable end screw clamp terminal 0.00...0.01 In ² (0.27...4 mm ²), 1 wire rigid 0.00...0.00 in ² (0.34...2.5 mm ²), 1 or 2 wires flexible with cable end
Operating position	Any position

Installation category	II IEC 60947-1
Mounting Support	Symmetrical DIN rail Asymmetrical DIN rail Combination rail
Net Weight	0.75 lb(US) (0.34 kg)

Environment

Dielectric strength	2500 V between wired interface and earth for 1 minute 4000 V between I/O for 1 minute
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	1760 °F (960 °C) IEC 60695-2-1
Shock resistance	30 gn 11 ms IEC 60068-2-27
Vibration resistance	5 gn 10...150 Hz)IEC 60068-2-6
Electromagnetic compatibility	Electromagnetic field immunity test level 3 10 V/m between 27...1000 MHz IEC 61000-4-3 Electrostatic discharge immunity test level 3 8 kV IEC 61000-4-2 Fast transients immunity test level 3 on input/output 1 kV IEC 61000-4-4 Fast transients immunity test level 3 on power supply 2 kV IEC 61000-4-4 1.2/50 µs shock waves immunity test IEC 60947-1
Ambient Air Temperature for Operation	-13...158 °F (-25...70 °C) at Us 23...131 °F (-5...55 °C) unrestricted operation
Ambient Air Temperature for Storage	-40...176 °F (-40...80 °C)
Operating altitude	<= 9842.52 ft (3000 m)
Pollution degree	2 IEC 60947-1

Ordering and shipping details

Category	22375 - INTERFACE MODULE(ABA,R,S)
Discount Schedule	CP2
GTIN	3389110651515
Nbr. of units in pkg.	1
Package weight(Lbs)	1.41 oz (40 g)
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	2.83 in (7.2 cm)
Package 1 width	3.54 in (9 cm)
Package 1 Length	4.21 in (10.7 cm)
Unit Type of Package 2	BB1
Number of Units in Package 2	5
Package 2 Weight	7.34 oz (208 g)
Package 2 Height	2.83 in (7.2 cm)
Package 2 width	3.54 in (9 cm)
Package 2 Length	4.21 in (10.7 cm)
Unit Type of Package 3	S02
Number of Units in Package 3	75
Package 3 Weight	7.76 lb(US) (3.52 kg)
Package 3 Height	5.91 in (15 cm)
Package 3 width	11.81 in (30 cm)
Package 3 Length	15.75 in (40 cm)

Offer Sustainability

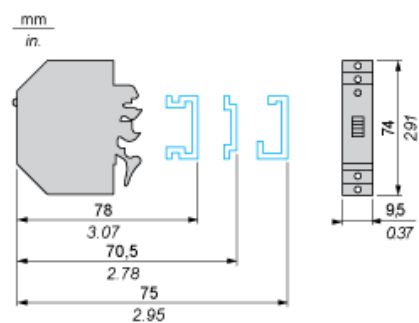
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
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
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Slim Solid-State Interface Module

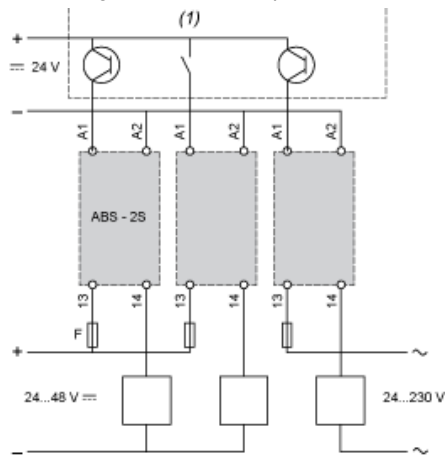
Dimensions



Slim Solid-State Interface Module

Example of Application with PLC

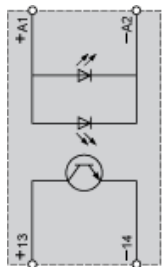
Interfacing PLC discrete outputs



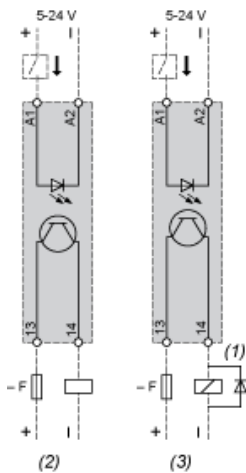
(1) PLC positive logic transistor (or relay) outputs

Solid-State Output Module

Circuit Diagram



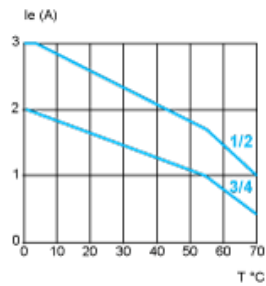
Wiring Diagrams



- F fuse DF1 SS133.2
(1) or peak limiter
(2) Resistive load
(3) Inductive load

Temperature Derating Curves - $U_c = U_s = 24\text{ Vdc}$

DC Loads



- (1) Vertical module alone or adjacent to modules with low heat dissipation
- (2) Horizontal module alone or adjacent to modules with low heat dissipation
- (3) Vertical module mounted with 2 modules with identical heat dissipation on both sides
- (4) Horizontal module mounted with 2 modules with identical heat dissipation on both sides

NOTE: $T^{\circ}\text{C}$ is the ambient temperature.

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