



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
Line Rated Current	<= 13.6 mA
Reverse polarity protection	Internal control circuit Internal output circuit
Short-circuit protection	3.15 A external fuse fast blow (Ik <= 1 kA AC and Ik <= 100 A DC)
[Ith] conventional free air thermal current	3 Aat 104 °F (40 °C)
Local signalling	Green mechanical indicator for position of contacts and 1 green LED control signal state
Sale per indivisible quantity	1
Width pitch dimension	0.69 in (17.5 mm)

Complementary

Control circuit voltage limits	28.8 V
Voltage state 1 guaranteed	16.9 V
Current state 1 guaranteed	8.3 mA
Voltage state 0 guaranteed	5.3 V
Current state 0 guaranteed	2 mA
[Ue] rated operational voltage	24...240 V
Output circuit type	AC
Rated operational voltage limits	<= 264 V
[Ie] rated operational current	1 A AC-15 vertical position, single product conforming to IEC 60947-5-1 1 A AC-15 vertical position, touching product conforming to IEC 60947-5-1 1.6 A AC-13 vertical position, single product conforming to IEC 60947-5-1 1.6 A AC-14 vertical position, single product conforming to IEC 60947-5-1 2.1 A AC-12 vertical position, single product conforming to IEC 60947-5-1 1.5 A AC-12 vertical position, touching product conforming to IEC 60947-5-1 1.5 A AC-13 vertical position, touching product conforming to IEC 60947-5-1 1.5 A AC-14 vertical position, touching product conforming to IEC 60947-5-1
Minimum switching current	10 mA
Residual current	<= 2.5 mA
Drop-out voltage	<= 3 V Ie >= 10 mA <= 1.5 V Ie >= 100 mA
DV/dt	500 V/μs
0 crossing voltage	50 V peak
Response time	<= 10 ms from state 0 to state 1at 50 Hz <= 10 ms from state 1 to state 0at 50 Hz <= 8 ms from state 0 to state 1at 60 Hz <= 8 ms from state 1 to state 0at 60 Hz
Switching frequency	<= 0.7 Hz AC-13 module alone duty cycle: 40 % <= 0.7 Hz AC-14 module alone duty cycle: 40 % <= 0.7 Hz AC-15 module alone duty cycle: 40 % <= 50 Hz on resistive load duty cycle: 50 %
[Ui] rated insulation voltage	250 V conforming to VDE 0110 group C 300 V conforming to IEC 60947-1
Flame retardance	V0 conforming to UL 94
Cable cross section	0...0.01 in ² (0.27...4 mm ²), 1 wire rigid 0...0 in ² (0.34...2.5 mm ²), 1 or 2 wires flexible with cable end 0...0 in ² (0.6...2.5 mm ²), 1 or 2 wires flexible without cable end screw clamp terminal

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Operating position	Any position
Installation category	II conforming to IEC 60947-1
Mounting support	Asymmetrical DIN rail Combination rail Symmetrical DIN rail
Product weight	0.97 lb(US) (0.44 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	BV CSA DNV LROS (Lloyds register of shipping) UL
IP degree of protection	IP20 conforming to IEC 60529
protective treatment	TC
fire resistance	1760 °F (960 °C) conforming to IEC 60695-2-1
shock resistance	30 gn 11 ms conforming to IEC 60068-2-27
vibration resistance	5 gn (f = 10...150 Hz) conforming to IEC 60068-2-6
electromagnetic compatibility	1.2/50 µs shock waves immunity test, 0.5 kV for U < 50 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, 2.5 kV for U < 300 V conforming to IEC 60947-1 Electromagnetic field immunity test level 3, 10 V/m between 27...1000 MHz conforming to IEC 61000-4-3 Electrostatic discharge immunity test level 3, 8 kV conforming to IEC 61000-4-2 Fast transients immunity test level 3, on input/output 1 kV conforming to IEC 61000-4-4 Fast transients immunity test level 3, on power supply 2 kV conforming to IEC 61000-4-4
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 conforming to IEC 60947-1

Offer Sustainability

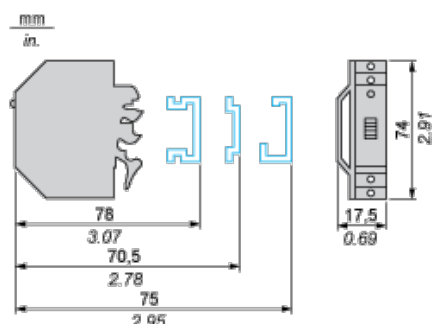
WARNING: This product can expose you to chemicals including:	WARNING: This product can expose you to chemicals including:
Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.	Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information go to www.p65warnings.ca.gov	For more information go to www.p65warnings.ca.gov

Contractual warranty

Warranty period	18 months
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Slim Solid-State Interface Module

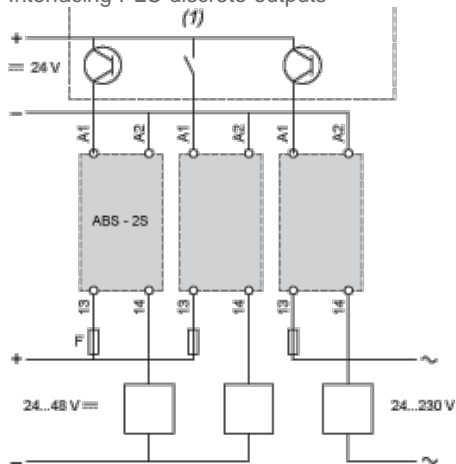
Dimensions



Slim Solid-State Interface Module

Example of Application with PLC

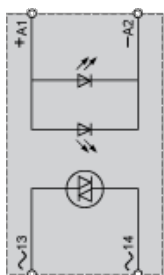
Interfacing PLC discrete outputs



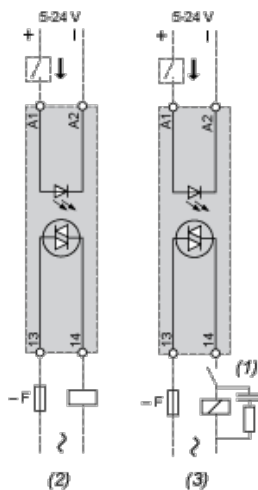
(1) PLC positive logic transistor (or relay) outputs

Solid-State Output Module

Circuit Diagram



Wiring Diagrams



F fuse DF1 SS133.2

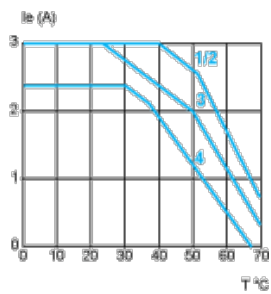
(1) or peak limiter

(2) Resistive load

(3) Inductive load

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

AC 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°C is the ambient temperature.



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