

SAFETY RELAY MODULES

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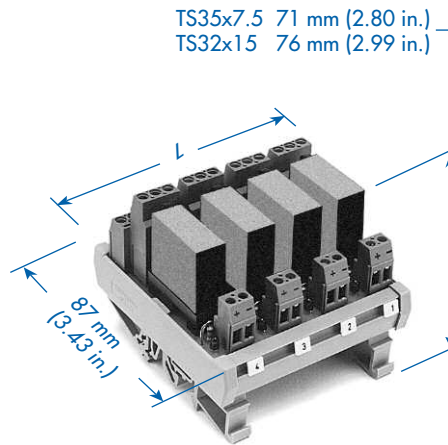
**8 Amp Contacts,
35 or 32mm DIN Rail**

Altech Safety Relay Modules utilize Relays with Force-Guided-Contacts that meet or exceed international standards, TÜV and UL. They are designed to protect man and machine as specified in OSHA FR1910 Regulations, a mandatory requirement of the European Machinery Directive EMD 89.392 EEC. The Safety Relays are used in Safety Devices such as Emergency Stop Modules, Safety Gate Monitors, 2-Hand Safety Modules, etc.

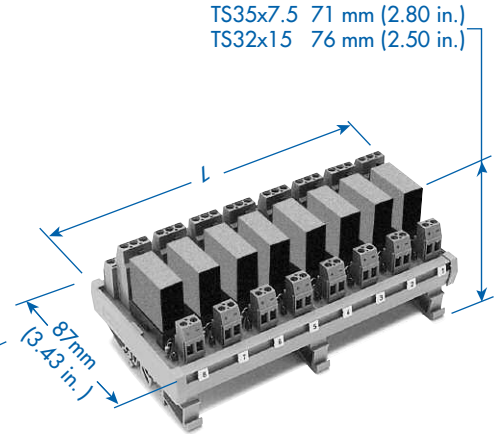
This series of Safety Relay Modules are Double Pole, Double Throw configurations, and are available as 1, 2, 4, 8 and 16 isolated channels and 8 and 16 bussed channels with 12 or 24 VDC coils. Isolated channels allow control of each relay by a different logic system, if necessary. There are two inputs for each relay coil per channel. Bussed channels allow high density packaging with a common input for all relays. Safety Relay Modules may be ordered with three different types of relay contact material, depending on the actual load current.

- Screw-Cage Clamp Connection
- LED Coil Voltage Indicator
- Reverse DC Polarity LED Protection
- Surge Suppression With DC Coils
- Industry Standard Relays
- DIN Rail Mount, Panel Mount Available

Isolated Channel Double Pole Double Throw



Bussed Channel Double Pole Double Throw



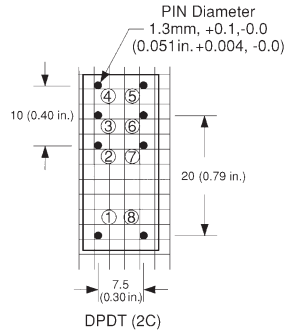
Contact Material:
AgSnO₂+0.2µmAu
Contact Ratings:
8A(2x5A) 110DC, 250VAC

Contact Material:
AgNi10+0.2µmAu
Contact Ratings:
8A(2x5A) 110DC, 250VAC

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AgNi10+5µmAu
Contact Ratings:
8A(2x5A) 110DC, 250VAC

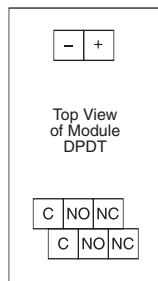
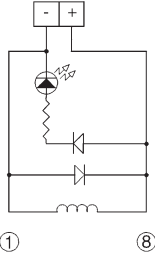
Isolated Channels (No Bus)	Length (L) mm (in.)	Type/Cat. No.	Type/ Cat. No.	Type/Cat. No.
1 Channel, Coil Voltage 12V 24V	21 (0.83)	8949.2C 8951.2C	8949.2N 8951.2N	8949.2S 8951.2S
2 Channel, Coil Voltage 12V 24V	40 (1.57)	8949.3C 8951.3C	8949.3N 8951.3N	8949.3S 8951.3S
4 Channel, Coil Voltage 12V 24V	79 (3.11)	8955.2C 8956.2C	8955.2N 8956.2N	8955.2S 8956.2S
8 Channel, Coil Voltage 12V 24V	157 (6.18)	8955.3C 8956.3C	8955.3N 8956.3N	8955.3S 8956.3S
16 Channel, Coil Voltage 12V 24V	311 (12.24)	8963.2C 8972.2C	8963.2N 8972.2N	8963.2S 8972.2S
Bussed Channels	Length (L) mm (in.)	Type/Cat. No.	Type/ Cat. No.	Type/Cat. No.
8 Channel, Bussed DC+ 12V 24V	125 (4.92)	8923.2C 8924.2C	8923.2N 8924.2N	8923.2S 8924.2S
8 Channel, Bussed DC- 12V 24V	125 (4.92)	8923.3C 8924.4C	8923.3N 8924.4N	8923.3S 8924.4S
16 Channel, Bussed DC+ 12V 24V	248 (9.76)	8926.2C 8926.3C	8926.2N 8926.3N	8926.2S 8926.3S
16 Channel, Bussed DC- 12V 24V	248 (9.76)	8927.2C 8927.3C	8927.2N 8927.3N	8927.2S 8927.3S

Isolated Channel, DPDT



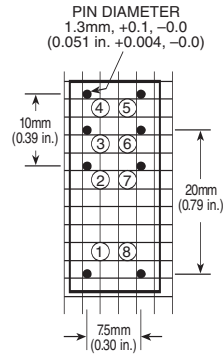
Bottom View, Relay Pinouts, Grid 2.54mm (0.1in.)

DC Coil Circuit

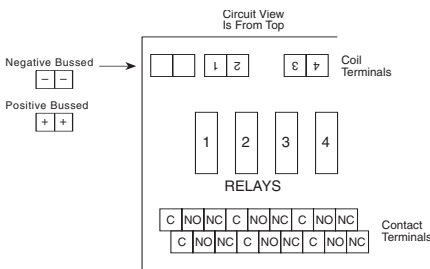
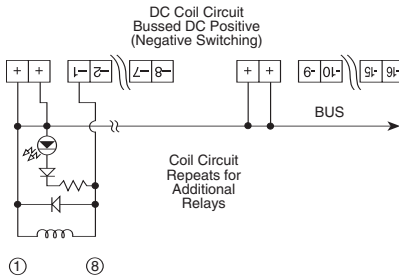
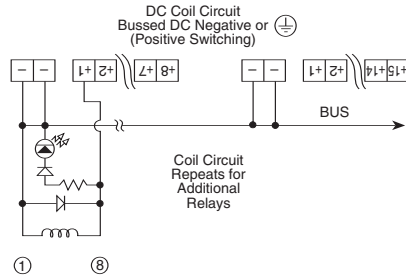


Bussed Channel, DPDT

Relay Pinout

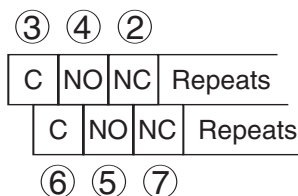
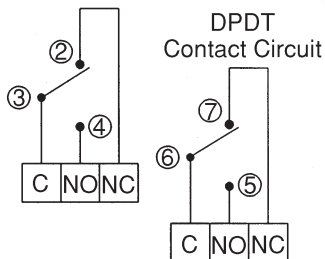


Coil Circuits



Contact Circuits

For Both Isolated and Bussed Channels



Relay Specifications

-Normal Coil Voltage:	12,24 VDC
-Coil Power Dissipation:	0.7W
-Max. Switching Voltage:	250VDC, 400VAC
-Max. Switching Current:	8A(2x5A simultaneous)

-Max. Switching Power	
DC	200W (2x160W simultaneous)
AC	2000VA (2x1250VA simultaneous)

-Contact Switching Rate:	10 operations/ sec.
-Relay Operate Time	15 ms
-Relay Release Time	12 ms
-Contact Arrangements	DPDT, 2 FORM C

-Contact Material:	
Standard	AgNi10+0.2μmAu
Optional	AgSnO ₂ +0.2μmAu
	AgNi10+5μmAu

-Mechanical Life:	50x10 ⁶ operation cycles
-Ambient Temperature:	-40° + 60°C
-Cover Material:	Polyamide 6
-Weight:	15g

Coil Specifications

Rated Voltage	Voltage Range	Coil Resistance
12VDC	9.6V-19.2V	210Ω ± 15%
24VDC	19.2V-38.4V	820Ω ± 15%