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IP-RELAY

IndustryPack® with eight Form C Latching Relays

Features

- Eight form C latching relays (double pole, double throw)
- Contacts are rated at 1 Amp at 30 VD
- Pi filters
- CMOS logic

IP-Relay provides eight form C (double pole, double throw) latching relays. Relays provide the ultimate switch for accurate signal transmission. Gold plated bifurcated contacts add only 60 mΩ resistance, even after one million operations. Advanced design results in excellent vibration and shock resistance. Contacts are rated at 1 Amp at 30 VDC.

Local timing logic automatically generates the necessary 3 msec pulse necessary to set or reset each relay. Pi filters prevent coil noise from entering the power supply line. CMOS logic keeps average power dissipation on the IndustryPack extremely low.

An onboard wiring option permits using the IP-Relay as a signal multiplexor or de-multiplexor. In this configuration the IP functions as a dual eight channel mux. This mode is convenient for selecting sensors to the IP-Precision ADC, or for selecting target devices from IP-16DAC.

Specifications

Logic Interface	IndustryPack logic Interface
Wait States	Zero, all accesses
Number of Relays	Eight
Type of Relay	Form C latching (double pole, double through)
Operating Power	500 mW typical
Switching Power	700 mW typical
Switching Time	3 msec maximum
Switching Function	Onboard timers and logic
Switching Rate	180 cpm continuous no load 20 cpm continuous rated load
Switching Rate Function	Onboard timer readable by software fixed at 180 cpm
Timers	Two timers readable by software, Timer one fixed at 3 msec, Timer two fixed at 300 msec. Timer one blocks additional write accesses. Both timers always readable.
Initial Contact Resistance	50 mΩ max, 30 mΩ typical
Contact Material	Gold-clad silver
Switching Power	30 W, 62.5 VA maximum per relay
Switching Current	1 Amp maximum
Relay UL/CSA Rating	1 A 30 VDC, 0.3 A 110VDC, 0.5 A 125 VAC
Relay breakdown voltage	750 Vrms
Expected Life	Mechanical : 10^8 (@ 180 cpm). Contact: 2 x 10^5 at 1A 30VDC
Relay Shock Resistance	Functional: 50 G. Destructive: 100 G
Relay Vibration Resistance	Functional: 18G,10 to 55 Hz
Power Requirements	+5 VDC, 100 mA typical 140 mA switching
Dimensions	1.800 by 3.900 by 0.340 inches maximum
Environmental	Operating temperature: +10° to +50C Humidity: 5% to 95% non-condensing Storage: –10°to +85°C

Order Information

IP-RELAY	IndustryPack with eight Form C latching relays

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