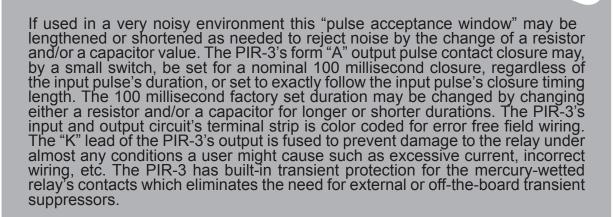


PIR-3 PULSE ISOLATION RELAY

The PIR-3 pulse isolation relay is designed to provide three sets of isolated "dry", mercury-wetted form "A" (K & Y) or form "B" (K & Z) contacts from a single form "A" input. Typical applications involve timing circuits that distribute "end-of-demand" interval pulses. Other applications include interfaces between utility metering devices and customer- owned energy control systems, demand recorder applications, and supervisory control systems (SCADA) interfaces. A bright yellow LED lamp indicate the system's status at all times thus allowing a rapid check of the system's performance without requiring any additional test equipment. The PIR-3 has an integrated circuit that checks each incoming pulse for its duration. If the incoming pulse is less than 20 milliseconds in length the PIR-3 assumes that the incoming pulse is noise and it is disregarded. Thus any valid pulse rate of 25 pulses per second (50 on-50 off form factor) or less is accepted while static and induced noise is rejected.



All component parts which have power applied to them, with the exception of the input/output terminal strip are enclosed in a polycarbonate cover for maximum user protection. The mounting base plate is also made of polycarbonate and offers excellent electrical insulation between the circuit and the mounting surface.

PIR-3 SPECIFICATIONS

ELECTRICAL

Power Input: 90 to 325 VAC. Burden: 10 MA. at 120 VAC

Output: Three sets of "dry" form "A" or form "B" contacts (K & Y or K & Z) for selected by a user changeable board jumper for time or energy pulses. The contacts are mercury wetted "no bounce" relays rated at 500 VDC or 350 VAC 2 Amps. break, 5 amps carry. The maximum rating of the contacts is 100 VA. Factory fused at 1/2 amp. (3AG)

Contact Resistance: 50 milliohms maximum, 12 to 14 typical

Insulation Resistance: 50 megohms typical

Operate and Release Time: 1 to 2 milliseconds typical

MECHANICAL

Mounting: Within 30 degrees of vertical

Size: 3.50 inches wide, 7.20 inches high, 1.50 inches deep

Weight: 17 ounces

TEMPERATURE

Temperature Range: -38° C to +70° C, -36.4° F to +158° F

Humidity: 0 to 98% non-condensing

OPTIONS

Input Voltages: 24 VAC



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