

DC MILLIVOLTS AND TRANSDUCER PROTECTION TRIP RELAYS

DIGITAL METERING SYSTEM

KEY FEATURES

- LED fault indication
- Adjustable nominal voltages, trip points, time delay and differentials
- Compact DIN-rail enclosure
- Power on LED (Green)
- Designed to avoid nuisance tripping

TE Connectivity's (TE) Crompton Instruments DC millivolts, volts and transducer trip relay offers adjustable low and high trip points (set points) and time delay settings. If the monitored signal exceeds either the low or high set point, the time delay is started and the red LED will illuminate to indicate a trip condition. When the time delay has elapsed, the relay will energise. The relay will automatically reset once the monitor signal falls below the set point minus the differential set point. When reset the red LED will extinguish and the relay will de-energise.

Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.









SPECIFICATION					
Technical parameters	PBT/S-12/24	PBT/S-24/240	PBV-12/24	PBV-24/240	PDU/E 24/240
DC millivolts trip	•	•	-	-	-
DC transducer trip	-	-	•	•	-
DC voltage	-	-	-	-	•
Supply terminals	A1, A2				
Input/monitoring terminal	IN+, IN				
Supply voltage	12-24V DC	24-240V AC/DC (AC 45-65Hz)	12-24V DC	24-240V AC/DC (AC 45-65Hz)	
Supply voltage burden (max)	1W	3VA/0.9W	1W	3VA/0.9W	
Supply voltage tolerance			+/-10%		
Rated input	50mV, 75mV, 100mV		0-1mA, 0-10mA, 4-20mA		10, 20, 40, 80, 120 V
Input impedance	50kΩ		-		1 ΜΩ
Voltage drop across input		- 1V max. at 120% lin		t 120% lin	-
Over-range	40-120% Uin		40-120% lin		40-120% Uin
Under-range	0-80% Uin		0-80% lin		0-80% Uin
Differential	Fixed at 1% Uin Fixed at 1% Iin		t 1% lin	Fixed at 1% Uin	
Trip time delay	Adjustable 0.5 to 10s			Adjustable 0.5 to 60s	
Overload capacity - continuous - 1s max.	10 x Uin -		3 x lin 10 x lin		1.2 x Uin -
Output relay-contact	2x change over (AgNi) plated				
Output relay-contact terminals	15, 16, 18 & 25, 26, 28				
Load capacity AC	250 V / 8 A, max.2 kVA				
Load capacity DC	30 V 8 A				
Mechanical life	3x10 ⁶ by rated load				
Electrical life (AC1)	7 x 10 ⁶				
ANSI no.	74				
Operating temperature	-20 + 55°C				
Storage temperature	-30 + 70°C				
Insulation	4 kV / 1 min.				
Overvoltage category	III.				
Pollution degree	2				
Enclosure integrity	IP40 from the front panel/IP20 terminals				
Enclosure style	DIN-rail, 3 module				
Case material	Flame retardant polycarbonate				
Connecting conductors profile (mm²)	max .2 x 1.5 mm² / 1 x 2.5 mm²				
Dimensions	H 90 x W 52 x D 64 mm				
Weight	135 g approx				
Standards	EN 60255-6, EN 60255-27, EN61000-6-2, EN6100-6-4				

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FOR MORE INFORMATION: TE Technical Support Centers

USA: + 1 800 327 6996 Canada: +1 (905) 475-6222 Mexico: + 52 (0) 55-1106-0800 Latin/S. America: + 54 (0) 11-4733-2200 + 33 380 583 200 France: + 44 0870 870 7500 UK: Germany: + 49 896 089 903 Spain: + 34 916 630 400 Italy: + 39 333 250 0915 + 32 16 508 695 + 7 495-790 790 2-200 Benelux: Russia: China: + 86 (0) 400-820-6015

