

Single Channel Process Alarm v4 PA101

DESCRIPTION

The PA101 is a single trip electronic alarm relay suitable for application with all standard electronic process signals and customer specified optional inputs ranging from 0-100mV up to 0-100Vdc. mA inputs are converted to voltage signals internally. Trip point is adjusted by 15-turn precision trimmers (TRIP) accessible from front, giving a high resolution for the set point. The relay status is displayed by LED on front. Reverse (REV) or direct (DIR) action is selectable via a mode switch located on front. This switch is useful for system check as operating the switch simulates alarm condition.

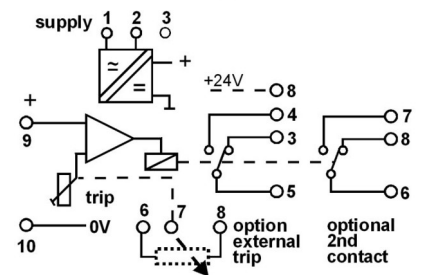
The standard version has one change-over contact, 240V rated. A second change-over contact rated up to 48Vdc can be wired to terminals 6, 7 and 8 as an option. Dead band is continuously adjustable from 0.5 to 10% of range via 15-turn trimmer on front (DB). A 0.5 second filter for fluctuating process signals is standard with all units, but can be decreased or eliminated where fast response is important.



General Specifications

Size:	52 W x 70 H x 110 D (mm).
Mounting:	DIN-Rail, gear plate.
Housing material:	ABS.
Termination:	Screw terminals on front.
Protection class:	IP40.
Weight:	0.300 kg.
Repeatability:	< 0.5% of input span.
Temperature effect:	0.01% per °C.
Power requirements:	3W.
Electromagnetic Compatibility:	Complies with AS/NZS 4251.1 (EN 50081.1)

Block Diagram



For input / output combinations refer to TYPE NO. DESIGNATION overleaf.

TYPE NO. DESIGNATION

Power Supply:

- 1 = 90-280Vac 50/60Hz (65-280Vdc). *) 4 = 8 - 60Vdc.
 *) 3 = 16-48Vac 50/60Hz (10-60Vdc) *) 9 = Other specify.

Input:

- 1 = 0-5Vdc, 200k Ω (1 – 5V). *) B = 0-50mV to 0-1000mV specify.
 2 = 0-20mA, 100 Ω (4 – 20mA).
 3 = 0-10Vdc, 470k Ω .
 4 = 0-50mA, 50 Ω .
 6 = 0-2Vdc

Output:

- 1 = Change-over contact 5A/240Vac resistive (standard).
 2 = Optional second contact.
 *) 9 = Other specify.

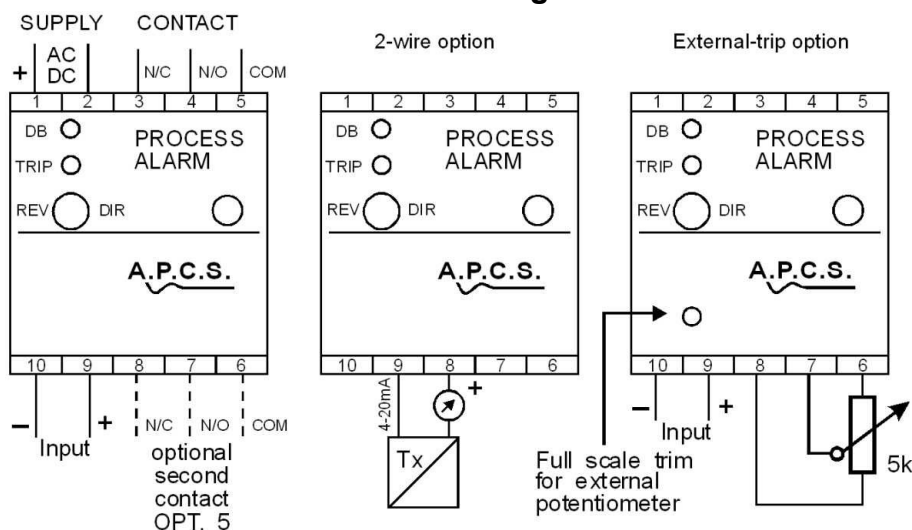
External Trip Option:

- 0 = Internal trip (standard).
 1 = 5k Ω wire-wound potentiometer.
 2 = 1k Ω wire-wound potentiometer.
 *) 9 = Other specify.

Other Options:

- 0 = None.
 *) 1 = 24Vdc to power 2-wire transmitter.
 *) 3 = Relay contact 16A / 240Vac resistive.
 *) 4 = Time delay 0 - 30 sec. or 0 - 60 sec. (Specify on delay or off delay / fail safe or normal).
 *) 5 = 2nd contact, 5A/250Vac Rating.
 *) 6 = 24Vdc regulated supply out.
 *) 7 = NAMUR proximity sensor input.
 *) 9 = Other specify.

Connection Diagrams



*) = Price Extra.

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