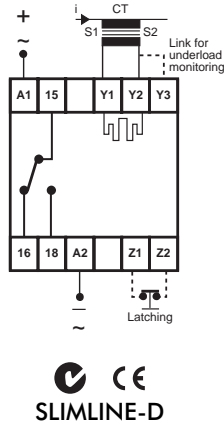




WIRING EXAMPLE



Application Examples

- Overload protection on cranes and hoists.
- Underload detection on conveyors. Conveyor belt slip-tear alarm or simple load control of conveyors.
- Simple and inexpensive load control on small industrial or agricultural installations.
- Monitoring and controlling loads on generator sets.
- Detection of blocked extruders on moulding machines.
- Overload detection of single phase motors.

ORDERING CODE

TYPE	SUPPLY VOLTAGE	AC/DC	RELAY CONTACTS	Fn
P100PD	230	A	S	3

Technical Specification

Power Supply:

AC: 12, 24, 115, 230 (ie. 220-240), 400 (ie. 380-415)V $\pm 15\%$
 DC: 12, 24, 48, 60, 110V $\pm 15\%$ (no galvanic isolation)

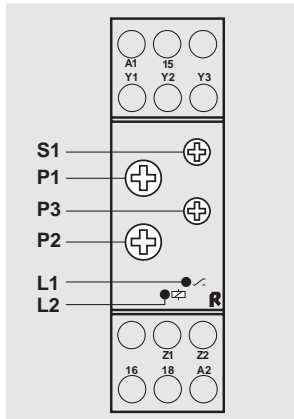
Response:

Start-up delay: approximately 10 seconds, standard.
 Time delay on trip & recovery (one adjustment, ie. trip time = recovery time): adjustable from 0,1 to 10 seconds.

Current Input:

Trip point: 0,1 to 1A, 0,2 to 2A or 0,5 to 5A AC/DC (adjustable)
 Repetitive accuracy: 1%.
 Hysteresis: 5% to 30% (adjustable)
 Maximum input current (continuous): 6A
 Peak short-term over-current (10 seconds): 20A
 Current input impedance: 50 m Ω

Description of Controls

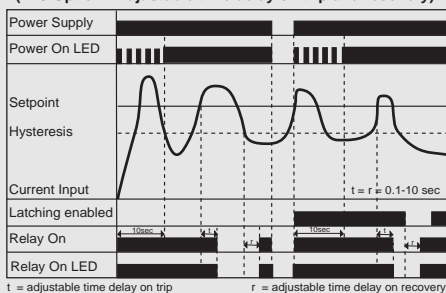


- P1: Hysteresis** ie. the difference between the tripping point and the recovery point is set between 5% and 30% on P1. (Hysteresis relates to the set-point of P2)
- P2: The Current Threshold** (tripping point) is adjusted on P2. Maximum setting of 100% corresponds with a current level of 1A, 2A or 5A, (depending on the setting of S1).
- P3: Adjustable Time Delay on Trip & Recovery** is adjusted on P3 from 0,1 to 10 seconds. As there is only one adjustment, the time set is the same for time delay on trip and on recovery

- S1: The Current Range** is set for 1A, 2A or 5A on S1.
- L1: The yellow "Relay ON" LED** illuminates to indicate that the relay is energised. The LED will be off if the unit registers a fault condition (overload/underload) or the power supply to the unit is interrupted.
- L2: The green "Power ON" LED** illuminates to indicate that power is supplied to the unit, and flashes during the start-up delay.

Operational Diagrams

Example of P100P Overload Monitoring
(Fn3 Option: Adjustable time delay on trip and recovery)



Example of P100P Underload Monitoring
(Fn3 Option: Adjustable time delay on trip & recovery)

