



SPEED SENSING PROTECTOR 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 Speed Sensing protector trip relay monitors rotating equipment using a magnetic pick-up and provides three output contacts which can be used to initiate alarms or shutdown signals. The relay also provides a tachometer output for speed indication.

The Speed Sensing relay will detect under-speed, over-speed and stop conditions, the set points can be used to raise an alarm or shut down the monitored equipment. The front panel provides three user set trip levels with relay LED state indication and a speed indicator analogue output signal in the form of 0-1mA.

The relay can be calibrated such that the standard 100% of the relay represents the required nominal engine speed. This is achieved by supplying the appropriate input to the sensor input terminals and pressing the adjust button for more than 3 seconds thus tripping the relay to become 100% reference.

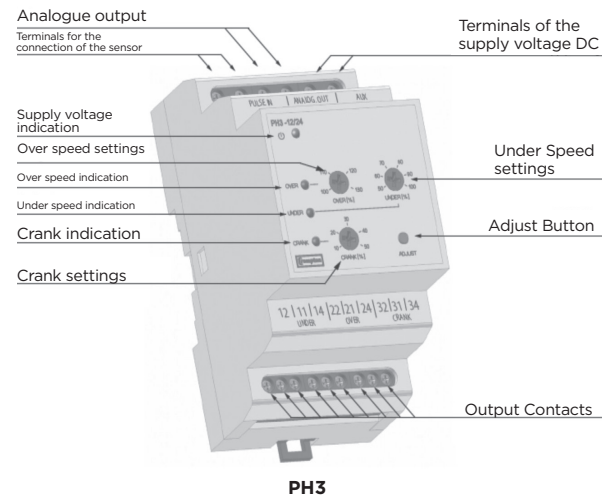
Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.

Speed Sensing Protector Trip Relays

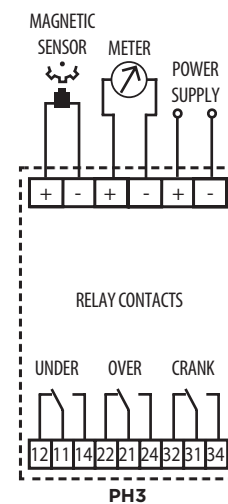


| SPECIFICATION | |
|---|---|
| Technical parameters | PMM/T-24/240 |
| Magnetic pick-up | ● |
| System type | Speed sensing |
| Supply terminals | AUX (+/-) |
| Sensor terminals | PULSE IN (+/-) |
| Supply voltage | 12-24 V DC |
| Supply voltage burden (max) | 2.5 VA / 1.4 W |
| Supply voltage tolerance | +20 / -10% |
| Input pulse amplitude | 5-75 V p-p |
| Frequency range | 0-1 kHz min, 0-10 kHz max |
| Trip settings | |
| Cranking | 10-50% |
| Under-speed | 50-100% |
| Over-speed | 100-130% |
| Differential | Fixed at 2% |
| Analogue (meter) output at 100% rated speed | 0 - 1 mA |
| Analogue (meter) output at 133% rated speed | 0.75 mA 1.0 mA |
| Output relay-contact; for general switching operation | 3x change over (AgNi) plated, volt-free |
| Output relay-contact terminals | 11, 12, & 14, 21, 22 & 24, 31, 32 & 34 |
| Load capability of relay contact AC | 250V/8A, max.2 kVA |
| Load capability of relay contact DC | 30 V 8 A |
| Mechanical life | 3x10 ⁶ by rated load |
| ANSI no. | 12/14 |
| Operating temperature | -20 + 55°C |
| Storage temperature | -30 + 70°C |
| Electric strength (supplying -contact relay) | 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 (mm ²) | Max 2 x 1.5 mm ² / 1 x 2.5 mm ² |
| Dimensions | H 90 x W 52 x D 64 mm |
| Weight | 145g approx |
| Standards | EN 60255-6, EN 60255-27, EN61000-6-2, EN6100-6-4 |

PROTECTOR OVERVIEW



CONNECTION



FOR MORE INFORMATION: TE Technical Support Centers

| | |
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