

PTC-M1 Detector of DC Voltage Online

Description and applications

PTC-M1 amplifies the signal from a Resistive Insulator sensor, made of Epoxy (CRE) resin or silicon (CRS) and 600...4000 VDC (select model) of line voltage. This device show direct line voltage presence through a free voltage contact and an optical sign.

This is used to distribution direct current installations (RENFE, METRO, etc.) to detect line voltage presence. Also, if your desire is obtain an interlock switch or a breaker, in absence of high voltage, or if your desire is signaling at a distance.

Functional features

- Connect an **electro mechanic output contact**, in line voltage absence/presence (chosen according to logic)
- **Red led** to display line voltage presence
- **Auxiliary Voltage** 48, 120 VDC or 230 VAC/50Hz

Construction features

- Removable enclosure
- Contacts above 11 pin socket
- DIN rail base
- Free voltage contacts

Technical Data

- Input Voltage 0...150 Vdc
- Presence detection level: 30%
- Consume at rest: 1 W.
- Consume with default: <2 W.
- Compliant standards:
 - Isolation voltage test
 - High frequency disturbances
 - Fast transitory
 - Impulse voltage
- Relay contact properties:
 - Permanent current: 5 A.
 - Maximum switching voltage: 230 VAC.
 - Maximum switching power: 2000 VA.



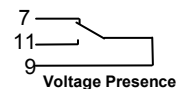
Models

PTC-M1/y

y = Auxiliary Voltage: **A** = 230 Vac
 B = 48 Vdc
 C = 120 Vdc

Connection

5- Signal sensor
 6- (-) Sensor
 1- } Vaux
 3- }

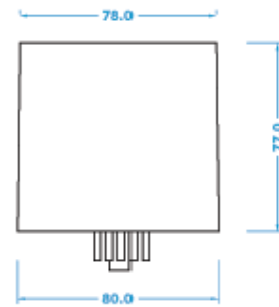
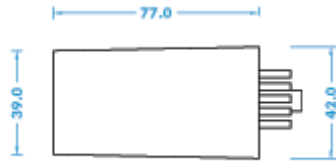


Warranty

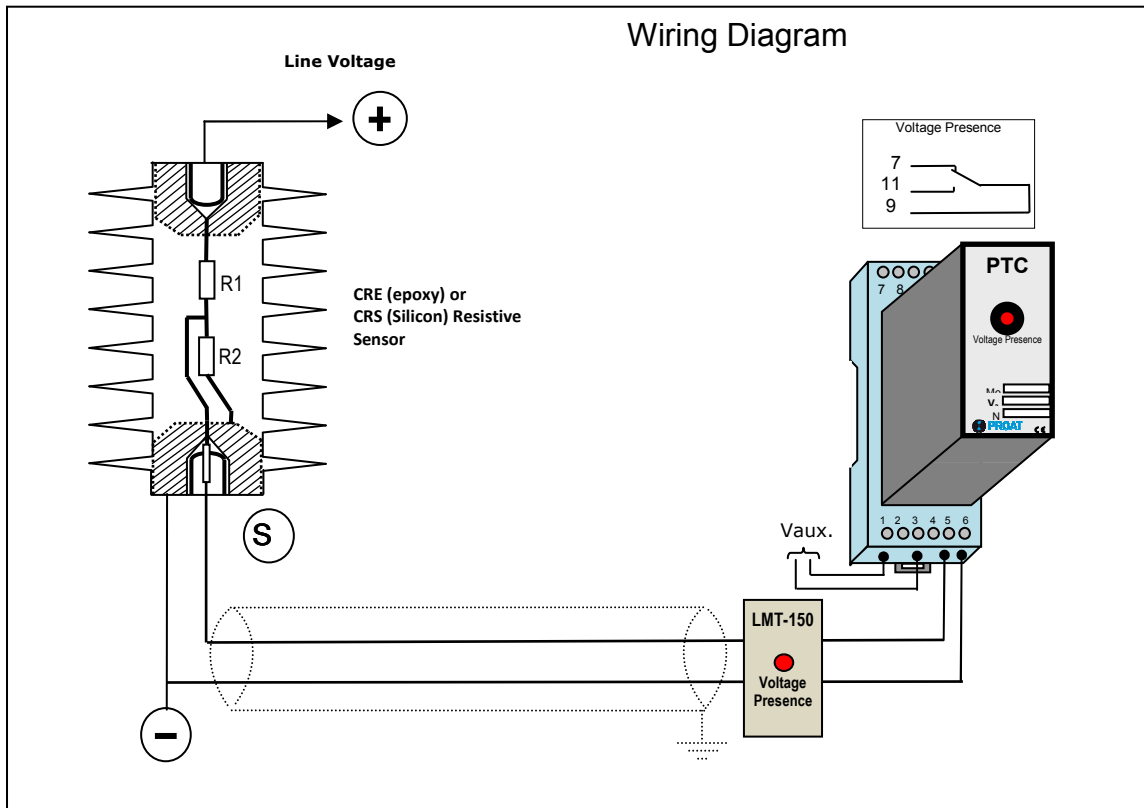
1 year against manufacturing default.

Dimensions

Enclosure OMEGA DIN EN 50022 (rail)
Self-extinguishing plastic material, type VO



Wiring Diagram



Limiter LMT-150/2

Limiter LMT – 150 function is prevent dangerous voltage output level if PTC-M1 is disconnected from his base (<150), and red neon to display line voltage presence.

LMT-150/2

Enclosure with rail DIN base



Pol. Ind. Can Tapioles c/Narcís Monturiol, 4 nave 10
08110 MONTCADA-REIXAC (Barcelona) SPAIN
Tel:935790610 Fax: 935792522
e-mail: comercial@proat.es
web: www.proat.es

