

RPW-PTC - Temperature Variation Monitoring via PTC Function

It is intended to monitor the temperature variation in motors or generators in machines in general equipped with PTC temperature sensors. It has digital electronics, which provides high accuracy and noise immunity.

Installation

It must be connected in series to PTC sensors (maximum 3). The RPW has a test device for the PTC sensor. In case it is not connected or it is in a fault state, the LED will indicate (LED will flash).

Operation

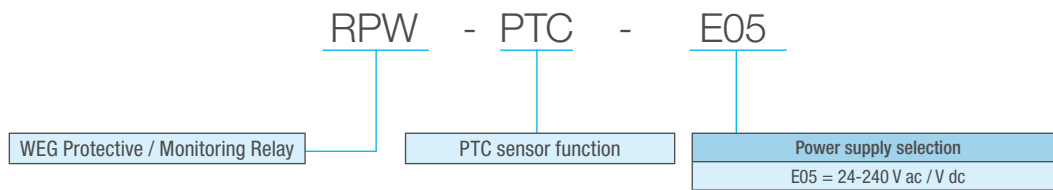
When it is energized, if the temperature is below the tripping value, the output relay will switch (energize) without delay, switching ON the red LED. In case the temperature rises above the limit, a sudden variation will occur in the PTC resistance, and the output relay will de-energize (red LED switches OFF). The relay will be energized again as soon as the temperature returns to the normal values.



Certifications



Selection



Specification

Power supply (L1-L2-L3)	Reference
24-240 V ac 50/60 Hz or 24-240 V dc	RPW-PTC-E05

Note: PTC sensor not included.

Wiring Diagram

A1	15	RPW PTC
S1	S2	
16	18	A3

A1 - A2	Supply voltage
S1 - S2	PTC sensor input
15 - 16 - 18	Output

	ON	Normal operation
	OFF	Undervoltage, Overvoltage and Phase loss
	ON	Supply voltage
	OFF	Without supply voltage
	Flashing	Fault in the PTC sensor

Notes: It is recommended the use of three PTC sensors in series, according to IEC 60947-8. The tripping temperature depends on the used PTC curve.