TCR

BIMETALLIC TEMPERATURE SWITCH WITH BUILT-IN POWER RELAY

NEW PRODUCT 2008

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Elettrotec's **TCR** bimetallic temperature switch is a temperature detection device with a built-in power relay controlled by a metallic sensing element. The product was conceived in order to solve installation problems of similar devices which do not integrate the sensor with the power relay into a single component. These devices require a separate mounting on the unit to be monitored as well as a separate electrical connection.

The new TCR model features a bimetallic sensor shrouded in a flange made of OT 58 brass. The bimetallic sensor is connected to a power relay placed in a strong plastic housing and embedded in protective resin.

The switch is quite easy to use. The bimetallic element is embedded in the metallic flange which detects the temperature by means of the threaded mounting. When the desired tempreature is reached, the bimetallic element forces an electric circuit to either open or close, thus actuating the power relay. Elettrotec's TCR bimetallic temperature switch is a device with a factory-set fixed actuation point. The built-in power relay and its electrical circuits allow a maximum load of 40 A in pickup state and 20 A in steady state.

This device is designed to be mounted on tanks or installations which require their fluid temperature to be kept at a given preset value in order to prevent equipment damage. This is particularly useful for hydraulic and pneumatic systems such as heat exchangers. When the preset threshold is reached, the temperature switch causes the automatic actuation of the cooling or heating systems. It can also be installed on units which actuate according to the detected temperature value or on industrial lines which have processing cycles based on a set temperature scale. Finally, the product can also send overshoot and restore alarm signals.

Elettrotec's TCR temperature switch is the cost-effective and time-saving solution contributing to a reduction of installation and wiring costs. The temperature switch can in fact be directly connected to the units to be monitored.

Features

- Bimetallic sensing element
- Built-in power relay
- Maximum power loads up to 40 A in pickup state and 20 A in steady state
- Direct assembly on units to be monitored
- Rugged and safe design thanks to resin-embedded components

ELETTROTEC®
CONTROL DEVICES FOR FLUIDS

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