CONTROL LOGIC S.r.l.

ISO 9001

SILO TEMPERATURE SENSOR - WATERTIGHT IP65
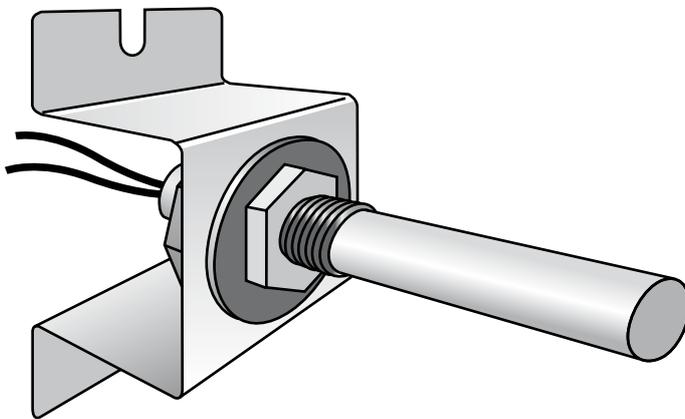# TER-616/T

Description

To be installed inside the silo higher room, where air is clean. It signals an overheating state caused by an ongoing or a smoldering fire.

Its NO normally open contact will close when the temperature reaches 88°C (190°F), and it will return back to the open state as soon as the temperature decreases below 88°C (190°F).

It needs a power supply voltage of 24VDC and it is used to control an optical and acoustical alarm signal.
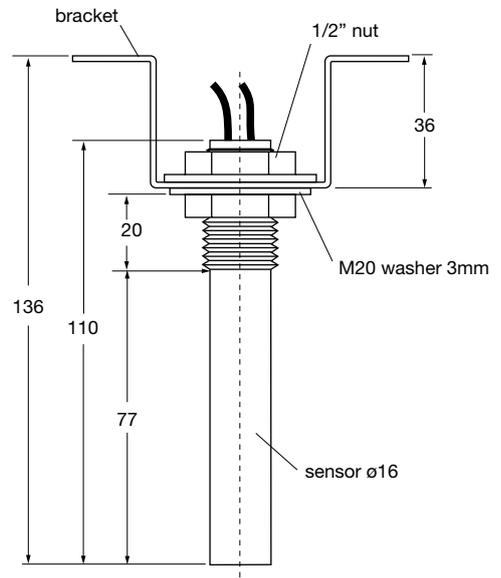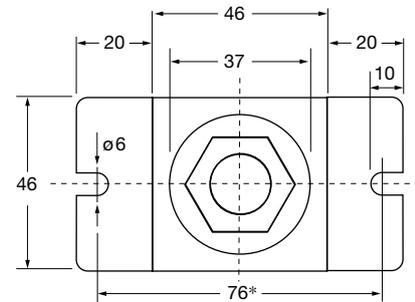
The protection level is IP65 (watertight) and its output is by free leads.

Two holes in the base are provided for wall mounting by two M5 screws.

Important warning!

Do not force the sensor rod in order to avoid temperature setting changes or sensor damage.

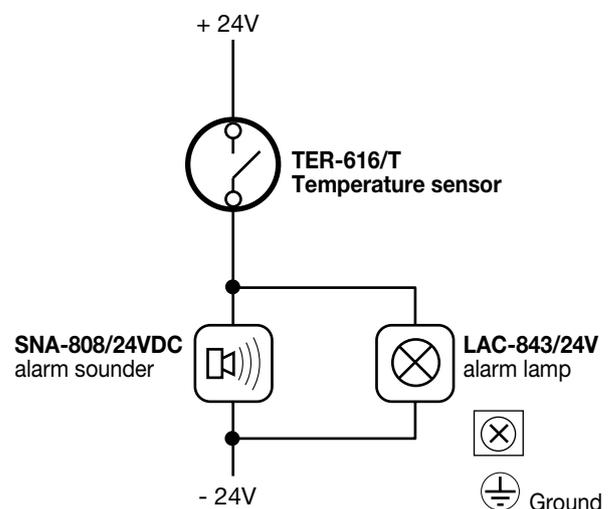During the installation use a hexagonal key to block the hexagonal head.

* Centre hole distance

Specifications

- Type of contact: NO Normally Open.
- It closes at 88°C (190°F), and reopens below 88°C (190°F).
- Contact rating 0.5A 24VDC (max voltage 32VDC).
- Electrical connections by two free leads, 300mm in length.
- IP65 protection (watertight). It needs an external IP65 junction box, not supplied.
- Mechanical mounting by two M5 screws on the mounting bracket.
- Centre hole distance 76mm.
- Mounting braket dimensions 86x36x46mm.
- Sensor total length 136mm, double thread 1/2" NPT.
- Sensor rod diameter 16mm, length 77mm.
- Sensor weight 80gr.
- Sensor rod material stainless steel, mounting head brass.
- Working temperature -40 +125°C (-40 +257°F).
- Protected area 120 square meters.
- Packaging mm 130x85x65.
- Weight: 180gr (220gr with packaging).

System connections

+ 24V

TER-616/T
Temperature sensor

SNA-808/24VDC
alarm sounder

LAC-843/24V
alarm lamp

- 24V

Ground

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SILO TEMPERATURE ALARM SYSTEM
SYS-F1...

Electrical wiring

The silo temperature alarm system, in addition to the alarm panel PAN-701, comprises two temperature sensors, one sounder and one lamp (or one sounder beacon).
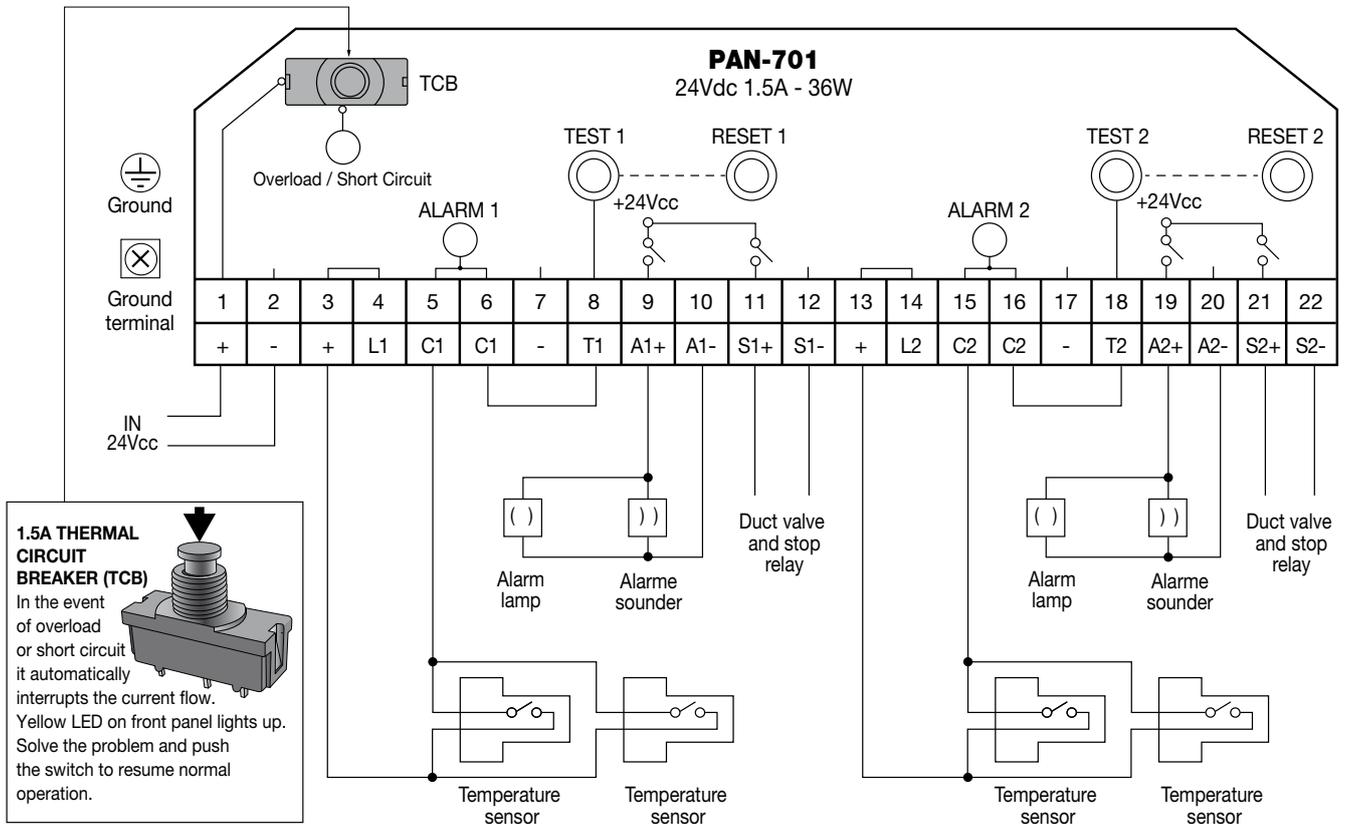It is possible to connect up to two temperature alarm systems to the alarm panel PAN-701 (ALARM 1 and ALARM 2).
You can check separately the system operations by pressing the corresponding TEST pushbutton on the panel.

The test procedure simulates an alarm so that the ALARM LED light on the panel and the external alarms turn on and activates the STOP circuit on the "S" terminals.
Press the RESET pushbutton to return the system to normal operating conditions.

Warning: the test procedure can check the alarm signals and the stop circuit but not the temperature sensors themselves.

1.5A THERMAL CIRCUIT BREAKER (TCB) In the event of overload or short circuit it automatically interrupts the current flow. Yellow LED on front panel lights up. Solve the problem and push the switch to resume normal operation.

System diagram