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CONTROL LOGIC S.r.l.

ISO 9001

SILO TEMPERATURE SENSOR EXPLOSION-PROOF MODEL
TER-616/A

Description

To be installed inside the silo higher room, where air is clean.
It signals an overeating state caused by an ongoing fire or by 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).
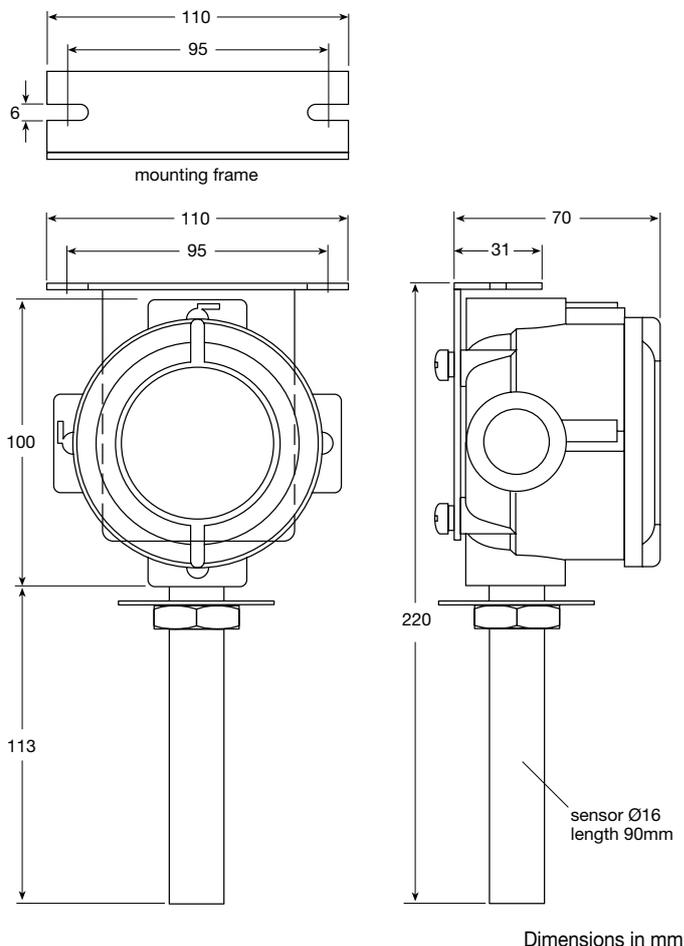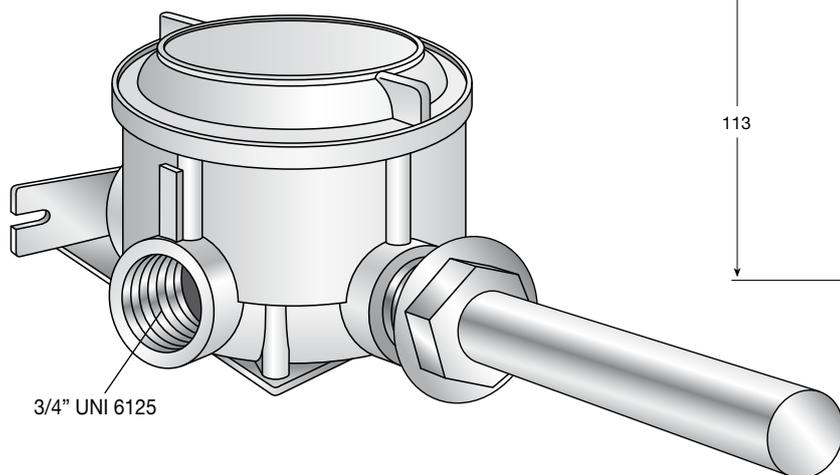It needs a power supply voltage of 24VDC and it is used to control an optical and acoustical alarm signal.
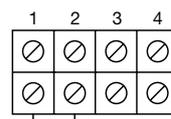Type of protection II 2 GD EEx-d IIC T6 IP65 T85°C.
CE ATEX certificate INERIS 03 ATEX 0119.
Two holes in the bracket are provided for wall mounting by two M5 screws.
Electrical connections on 4 ways terminal block.

3/4" UNI 6125

mounting frame

110
95
6

110
95
100
113

70
31
220

sensor Ø16
length 90mm

Dimensions in mm

External connection
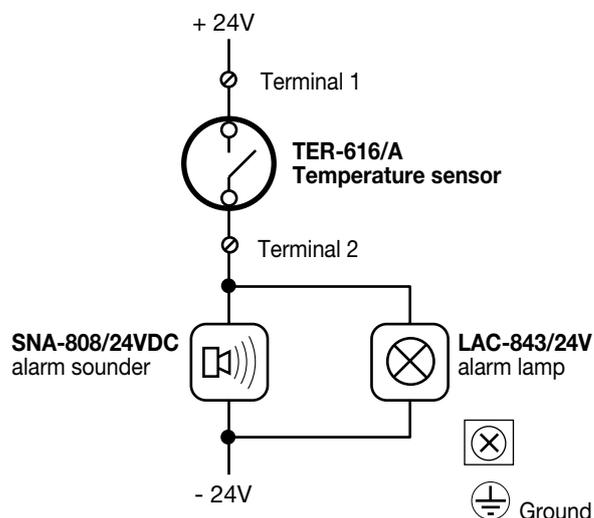terminal block

1 2 3 4

External connections
on terminals 1 and 2,
terminals 3 and 4 not
used

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 48VDC).
- Electrical connections on 4 ways terminal block.
- Mechanical mounting by two M5 screws.
- Centre hole distance 95mm.
- Sensor rod diameter 16mm, length 90mm.
- Sensor rod material stainless steel, case aluminium alloy.
- Working temperature -20 +70°C (-4 +158°F).
- Protection II 2 GD EEx-d IIC T6 IP65 T85°C.
- CE ATEX certificate INERIS 03 ATEX 0119.
- Protected area 120 square meters.
- Dimensions: 220x110x70 (packaging 300x140x82).
- Weight: 800gr (900gr with packaging).

System connections

+ 24V

Terminal 1

TER-616/A
Temperature sensor

Terminal 2

SNA-808/24VDC
alarm sounder

LAC-843/24V
alarm lamp

- 24V

Ground

ISO 9001

dL CONTROL LOGIC S.r.l.

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).
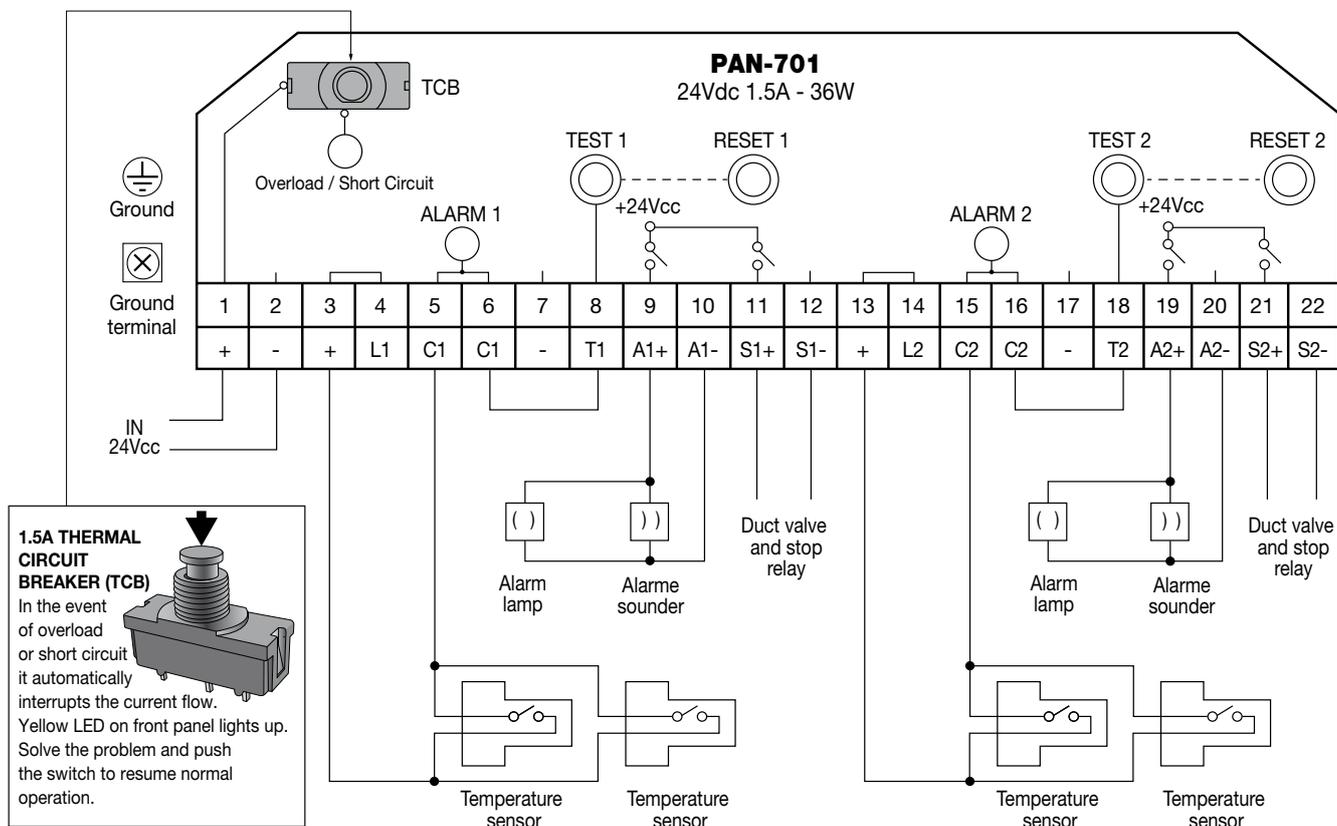
It is possible to connect up to two temperature alarm systems to the alarm panel PAN-701 (ALARM 1 and ALARM 2).

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.

System diagram