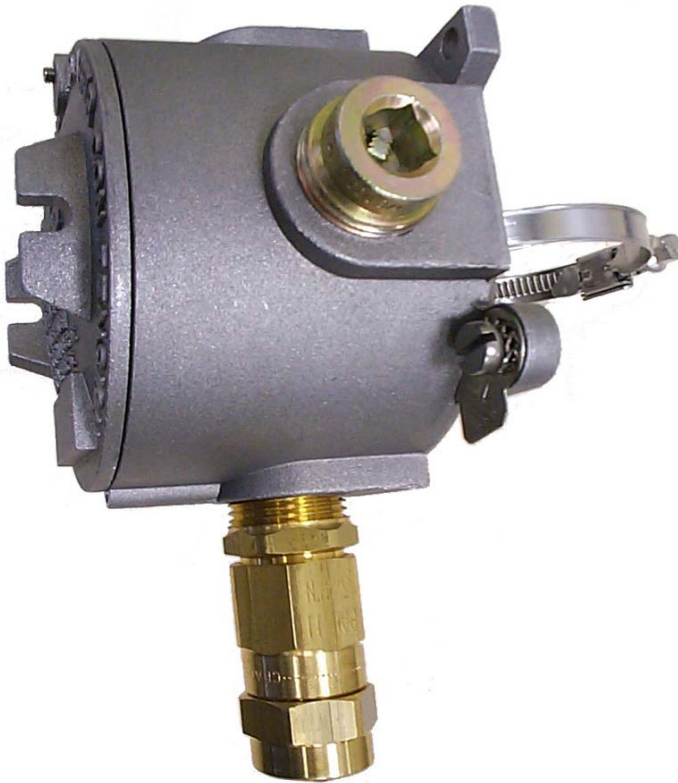




Instructions Manual



TÉCNICAL DATA

- Material: Metal alloy aluminium without copper
- Ambient temperature range: -20 a 40 °C
- Ingress protection: IP67
- Category of application : Ex II 2 GD EExd IIC T6

LIMIT SWITCH CHARACTERISTICS AND CONNECTION

AMM: Vmax: 250 V
Imax: 3 A

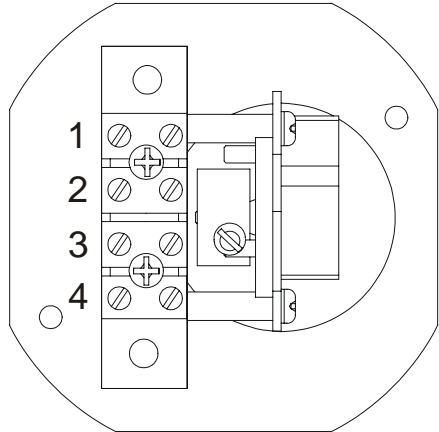
1. Earth
2. Common
3. Normally closed
4. Normally open

AMD: Vnom: 8.2 VDC
Max. level I > 2.2 mA
Min. level I < 1.1 mA

1. Earth
2. Positive
3. Negative
4. Not connected

AMR: Vmax: 250 V
Imax: 0.5 A

1. Earth
2. Common
3. Normally closed
4. Normally open



Important:

If the operation of the limit switches is checked before installation, this must be done in a non hazardous area.

To check the limit switch, it must be removed from the level.

Unscrew the electrical housing cover to gain access to the electrical connections.

Situate the limit switch in its normal working position and move a magnet as if it was the float.

The orientation of the magnet varies with the level type. For the LT series (with float in exterior glass tube) the magnet should be vertical with the north pole must be pointing upwards. For the LTL (with magnetic strips) series the magnet should be horizontal with the north pole points towards the level switch.

The signal at the electrical connection terminals will vary according to the float's position (with the AMM and AMR this can be checked using a multimeter).

CHARACTERISTICS WITH REGARDS TO SAFETY

Equipment conforms to the following directives and norms.

73/23/EEC	Low voltage.
89/336/EEC	Electromagnetic compatibility
94/9/EC (ATEX)	Equipment & protective systems intended for use in potentially explosive atmospheres
EN 50014	Electrical apparatus for potentially explosive atmospheres. General requirements.
EN 50018	Electrical apparatus for potentially explosive atmospheres. Flameproof enclosures "d".
EN 50281-1-1	Electrical apparatus for use in the presence of combustible dust. Part 1-1 electrical apparatus protected by enclosures.

This instrument, since it belongs to Group II, is destined to be used in areas where there is a hazard of explosive atmospheres forming, except for mining installations.

Since it is category 2GD it can be used in ambients where there is a probability of formation of explosive atmospheres due to gases, vapours, mists or powder in suspension.



IMPORTANT

- The respective national regulations, as well as the general engineering rules that apply to the installation and operation of apparatus in explosive atmospheres must be observed .
- The end user is responsible for the safe use of this equipment.
- Modification or reparation of the flameproof housing is not permitted.
- The opening of the housing always shall be done without voltage. The housing is considered to be closed when the lid is completely screwed down and the grub screw in its locking position.
- Only approved EExd IIC cable glands with the same thread as the housing should be used.
- The flameproof seals of the housing should kept greased to avoid corrosion, water ingress and seizing. Clean rests of grease and corrosion, do not use sharp objects that can damage the surface of the seal, and grease using a chemically and thermally stable grease with a drip point > 200°C.
- In applications with combustible dust, make sure that layers of more than 5 mm do not form.
- For the models that have non-metallic parts, the occurrence of electrostatic risks, must be taken into account. They should not be used in locations where formation of electrostatic charge can occur. During maintenance, these parts should always be cleaned using a damp cloth.

NOTE: The LT/LTL series level, to which this limit switch belongs, can be installed in a tank in which the **inside** is considered to be zone 0, because the part that is inside the tank is a simple Non electrical equipment without ignition sources.

MARKING



The marking of the equipment shows the following characteristics:

- Manufacturer
- Model
- EC marking
- Serial Number (year of construction and number)
- Notified body
- Flameproof marking
- Address of manufacturer

WARRANTY

Tecfluid S.A. GUARANTEES ALL ITS PRODUCTS FOR A PERIOD OF 24 MONTHS, after consignment, against all defects in materials and workmanship.

This warranty does not cover failures which can be imputed to misuse, use in an application different to that specified in the order, the result of service or modification by un-authorized persons, bad handling or accident.

This warranty is limited to cover the repair or replacement defective parts which have not been damaged by misuse.

This warranty is limited to the repair of the equipment and all further and eventually following damages are not covered by this warranty.

Any consignment of equipment to our factory or distributor must be previously authorised. The consignment should be done with the equipment well packed, clean of any liquids, grease or hazardous materials. Tecfluid S.A. will not accept any responsibility for damage done during transport.

Together with the equipment, a note should be enclosed indicating the failure observed, the name, address and telephone number of the sender.

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