

# INSTALLATION AND WIRING INSTRUCTIONS

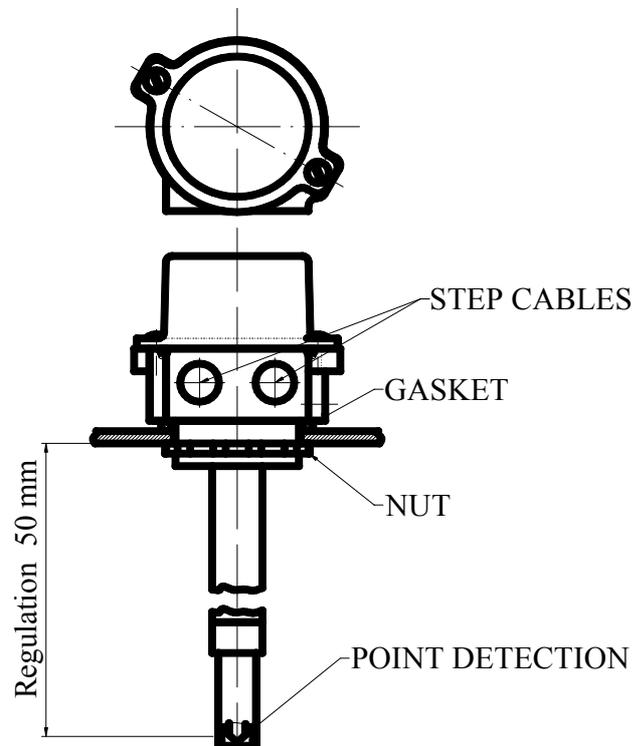
## 5 WIRE OPTICAL OVERFILL SENSOR DT5.03

### INSTALLATION (fig 1)

The sensor is housed in a drill of 61 mm using a locknut and a gasket. The gasket should be installed between the top of the tank and the base of the sensor; fixing is done by 2" nut (we suggest to use thread sealant). The sensor may be located in the manhole cover, or directly on the tank.

### SENSOR HEIGHT ADJUSTMENT (fig 1)

In order to adjust the detecting point, (50 mm displacement is possible), unblock the cane by removing the fixing screw. The detecting point should be determined by the total response time required to prevent a tank overflow condition. The loading terminal pumping shut-off system response time must also be considered. After the adjustment is done, the fixing screw must be tighten.



## WIRING and CONNECTION (Fig 2)

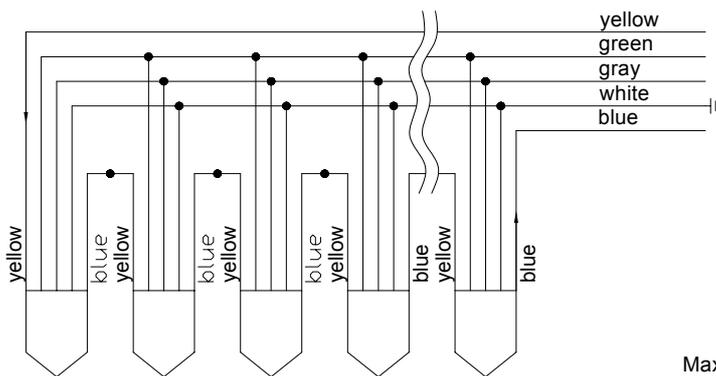
All cables and protection tubes used must comply with to A.D.R. regulations. The cable must be wired using the corresponding connectors. Once the wiring is finished, place the cover and gasket, making sure that the wires are not trapped. The joints must be checked with a tester. **This is an intrinsic security wiring and must be separated from the rest of the electrical systems.**

### SECURITY DEGREE

Work Temperature -40°C to +60°C

- IP-65 Surrounding protection
- Intrinsic security ATEX Ex II 1 G electronic circuit
- EEx ia IIA T5
- CE type certificate LOM 04 ATEX 2117
- Ui 14 V li 670 mA Ci 50 nF

Drawing 2

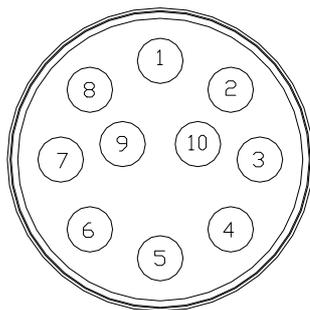


#### Socket

#### Side from wire connection

PIN N°	Color	
4	yellow	Signal entrance
5	green	Diagnosis
8	gray	Power supply (+)
10 E3	white	Earth (-)
6	blue	Impulse return
9 : E2		Earth
10 : E1		Earth

Max. compartment 12



Plug Base  
Connection face (internal)

E 1. Connect the 10 Pin to the truck chassis, via the earth connection inside the socket box, which must be connected to the truck chassis by cable.

E 2. Connect the 9 Pin to the truck chassis via the mounting bolt of the socket or via the vapour recovery hose interlock switch.

E 3. Connect earth to truck chassis at least 100 mm away from E1 and E2 **Following EN 13922 norm – Not necessary outside Europe**