

## Installation of electrical switches type 1690

1. Check to ensure alarm switches provided correspond with your order.

2. Electrical classification:

Check to see if the alarm switches are to be used in a hazardous area. The switches may be used in conjunction with a suitable isolating relay, for example type WE77Ex manufactured by Pepperl and Fuchs.

3. Switch specification:

Model No.	Arrangement	Max. Temperature	Max. Load
1690	Bistable NO/NC	120°C	40W / 0,8A / 230VDC 60 VA / 0,8A / 230VAC
1690Atex	Bistable NO/NC	120°C	20W / 0,4A / 230VDC 45VA / 0,6A / 230VAC
1690Atex	- Approval:	BVS 03 Atex E 126 X	CE 0123
	- Version:	ExII 2G EEx m II T6/T5; ExII 2D IP67 T100°C	
	- Art. No.:	610.045N1001	

4. Installation:

- Mount the alarm switch in the desired position on the gauge tube, jubilee clamps are supplied for gauge with a diameter of 60.3mm. These clips may also be used for mounting standard Macrolon indicator rails.
- When mounting the switch, ensure the trailing cable is downwards.
- Ensure the switch is mounted adjacent to gauge tube.

5. Function:

All switches are manufactured with 3-wire cable (black, brown and blue). The black wire is alltimes common pole for NC or NO.

Check the switch function NO or NC by an ohmmeter. The float has to pass switch in both direction.

The function NC or NO has to be seen always with polarity of used magnetically system.

For example:

Black wire and blue wire has been connected and with south polarity of magnetically system the switch is working NO, so will the switch become a NC if the magnetically polarity is changing to a north polarity.

In any case the float has to pass twice in both direction (up and down) to bring the switch into the correct position. Now you choose your contact NC or NO.

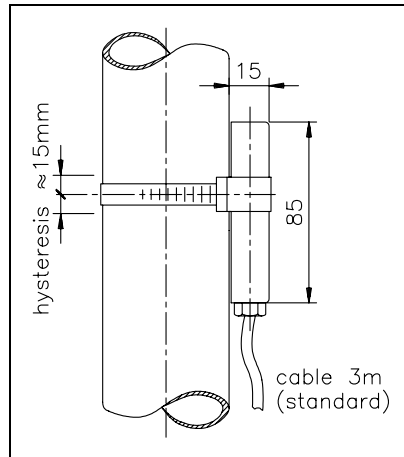
The switch has been mounted onto the float pipe wiring is connected black and brown, the switch has position NO.

## M E S S - U N D R E G E L I N S T R U M E N T E

The float is passing switching point and the float has another polarity than the magnet which has worked onto the switch in this case the switching system will change twice. If this happens never use a magnetto change switch function.

Move the float onetime up and onetime down in direction of switch. Now the switch is in the proper function.

Choise you switching function NC or NO.



### 6. Wiring diagram

Type

1690

1690Atex

