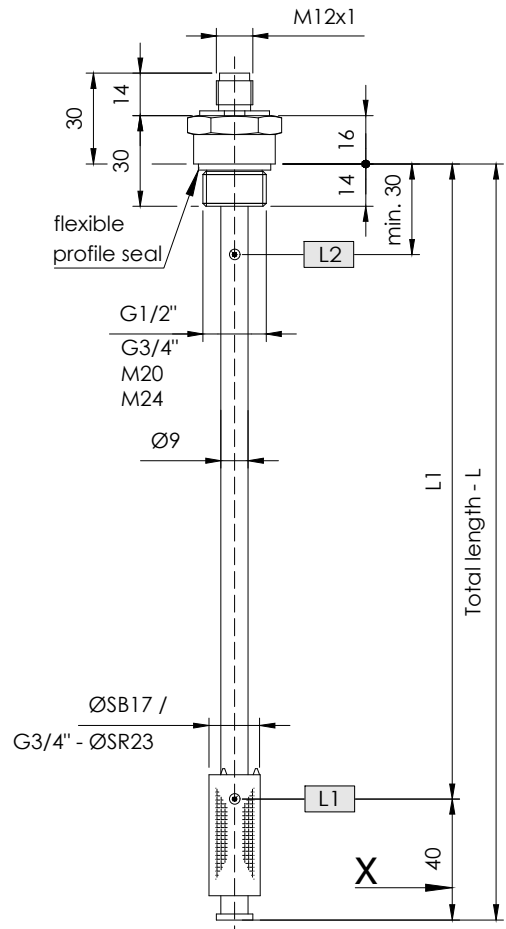


# NR 1/2" - 3/4" - M20 - M24

## Level regulator for tank insert

serial No. Date  
IN - GB - 100 - 10/22



Minimum distance of the contacts  
see data sheet IN-D-003.

**X = L1 - L3 + 1 Thermal contact + 60mm**  
**L1 - L2 + 2 Thermal contacts + 90mm**  
**L1 - L3 + Pt100 / 1000 + 55mm**  
 When ordering Pt100 / 1000  
 indication of connection II or III - conductors.

Order code

### Specimen order

**NR1/2"-L180-01-L1/90/S-T1/40Ö-T2/70Ö-M12-24V**

Tank connection:  
G1/2"  
G3/4"  
M20  
M24

Switching point L1-L3/  
mm from sealing edge  
Ö = break  
S = make  
Function with  
increasing level

Plug socket connector:  
M12 - 24V  
DIN 43651  
3+PE

Total length-L  
of switching tube(mm)

Level contact type  
01 = fixed, plain

Operating voltage  
VDC 10-36 = 24V  
VAC 10-230 = 250V

Pt100  
Pt1000  
Thermal contact  
T10Ö  
T40Ö (Ö)  
T50Ö preferred  
T60Ö (S)  
T70Ö (S)  
T80Ö (S)  
T90Ö  
(Indicate T1... - T2... for  
two thermal contacts)

## Description

The level regulator type NR 1/2", 3/4", M20, M24 for tank insert is a solenoid switch operating without contact with the function of monitoring and regulating liquid levels and temperatures. The switching tube contains bistable protective gas contacts, fixed in position. For fixed contacts, the contact intervals and their function must be given. The permanent magnet built into the float switches the contacts when the level changes. The switching difference (hysteresis) is 4 mm. For temperature monitoring and regulation, thermal elements such as thermal contacts or Pt100 / Pt1000 can be additionally incorporated. The level regulator is maintenance - free when nondeposit media are used. For inductive loads, a protective circuit must be provided (free-wheeling diode/RC element).

The device must only be installed by specialists.

Max. viscosity 150mm<sup>2</sup>/S

## Technical data

Switching tube Connection Brass, max. L = 800mm  
Brass: G 1/2", SW27  
Brass: G 3/4", SW32  
Brass: M20x1,5  
Brass: M24x1,5

Nominal pressure 1 bar max.  
Temperature of medium 100°C max.  
Float Hart Pu, Type: SB17 / SR23  
Medium density 0,80 kg/dm<sup>3</sup> min.  
Level contacts bistabil, Make / Break  
Operating voltage 250V AC / DC max.  
Contact details Datasheet: IN-D-003  
Thermal elements Pt100 / Pt1000 DIN EN 60751  
Datasheet: IN-D-005  
Thermal contacts Switchpoint: ± 5K  
Hysteresis: 20K ± 5K

Number of functions max. 4 can be incorporated  
Mounting position vertical ± 30°

Technical data



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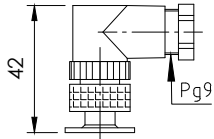
# Level regulator

## Plug variants and terminal pin assignment

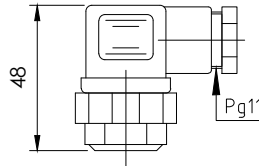
serial No. Date  
IN - GB - 100 - 10/22

Standard pin assignment  
Function with increasing level / temperature

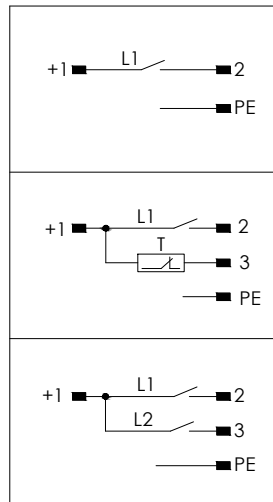
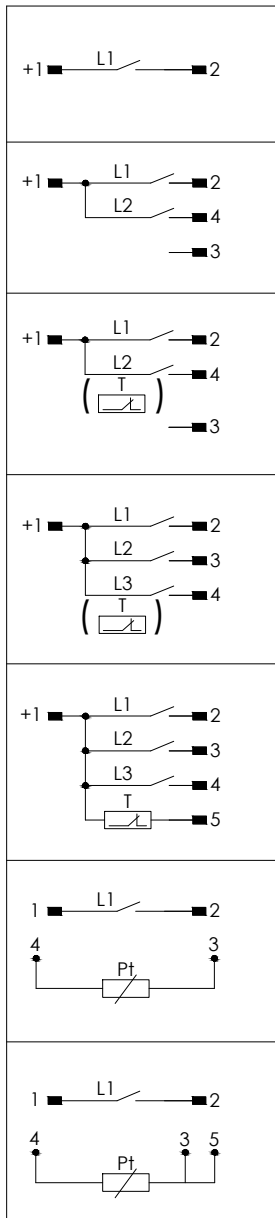
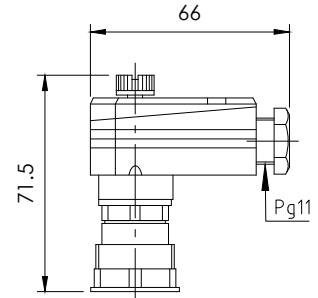
Plug connection  
M12 IP67  
5-polig



Plug connection  
3+PE IP65  
EN 175301-803  
(DIN 43650)



Plug connection  
6+PE IP65  
EN 175201-804  
(DIN 43651)



Plug assignment  
Level + Thermal contacts  
L + T1 + T2

