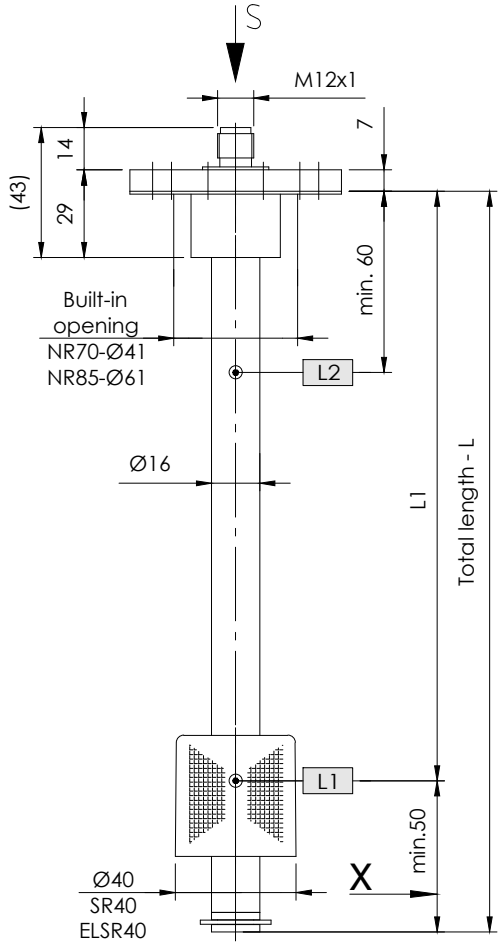
NR 70 / 85

Level regulator for tank insert

serial No. Date
IN - GB - 102 - 05/23



Minimum distance of the contacts
see data sheet IN-D-003/004.

X = L1 - L2 (01/03) + 1 Thermal contact + 70mm
L1 - L2 (02/04) + 1 Thermal contact + 80mm
L1 - L2 + Pt100 / 1000 + 60mm
When ordering Pt100 / 1000
indication of connection II / III / IV- conductors.

Order code

Specimen order

NR70-SR40-L370-03-L1/300/S-T70Ö-MS-M12-24V

Tank connection:
Flange NR70
Flange NR85

Float type
SR40
EL SR40

Total length-L of switching tube(mm)

Level contact type
OK=cordless contact (max.500mm)
01 = fixed, plain
02 = fixed, changeover
03 = adjustable, plain
04 = adjustable, changeover
(max. 2 functions)

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

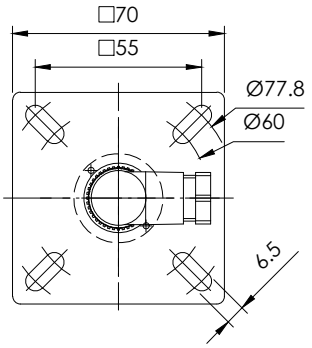
Pt100
Pt1000
Thermal contact
T10Ö
T40Ö
T50Ö
T60Ö (S)
T70Ö (S) (preferred break)
T80Ö (S)
T90Ö
(Indicate T1... - T2... for two thermal contacts)

Plug socket connector:
M12 - 24V
3+PE-DIN 43650
3 pol. + PE
6+PE-DIN 43651
6 pol. + PE
HAN I
HAN II

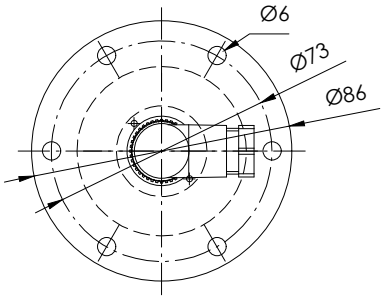
Operating voltage
VDC 10-36 = 24V
VAC 10-230 = 250V

Execution:
MS -Brass
VA - Stainless steel
VAPA - Flange - PA
- Switching tube - VA
(PA - Polyamide)

View S
Flange NR70 with Plug connection



Flange NR85 with Plug connection



Technical data

Description

The level regulator type NR 70 / 85 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. They may be fixed or alternatively mounted as an adjustable contact cartridge on a perforated strip. For fixed contacts, the contact intervals and their functions must be given. Plain contact cartridges can be subsequently adjusted for height. The function of make or break can then be altered by turning the cartridge through 180° degrees. 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 Pt100 / Pt1000 and thermal contacts can be additionally incorporated.
The level controller 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 150mm²/S

Technical data

Switching tube	**Brass (MS), Stainless steel (VA) max. L =1000mm**
Connection flange	**NR70 / NR85, VA or (PA) Polyamide with flat seal**
Nominal pressure	**1 bar max.**
Temperature of medium	**100°C max.**
Float	**Hard PU, Type: SR40**
	Ceramic, Type: ELSR40
Medium density	**0,80 kg/dm³ min.**
Level contacts	**bistable make / break / changeover optional fixed or adjustable**
Operating voltage	**250V AC /DC max.**
Contact details	**Datasheet: IN-GB-003/004**
Thermal elements	**Pt100 / Pt1000 DIN EN 60751**
	Datasheet: IN-GB-005
Thermal contacts	**Switchpoint: ± 5K**
	Hysterese: 20K ± 5K
Number of functions	**max. 3 can be incorporated**
Mounting position	**vertical ± 30°**

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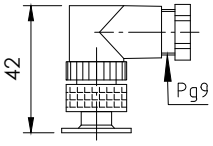
Level regulator

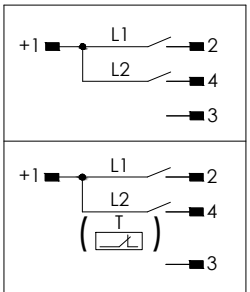
Plug variants and terminal pin assignment

serial No. Date
IN - GB - 102 - 05/23

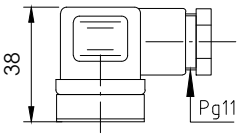
Standard pin assignment
Function with increasing level / temperature

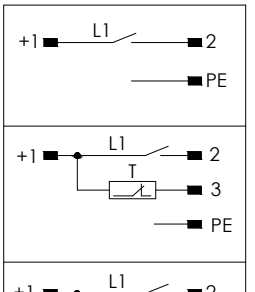
Plug connection
M12 IP67
5-polig



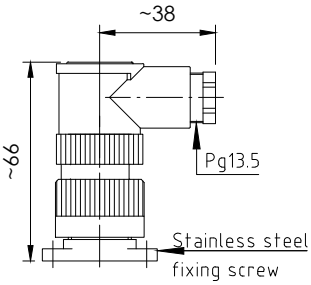


Plug connection
3+PE IP65
EN 175301-803
(DIN 43650)

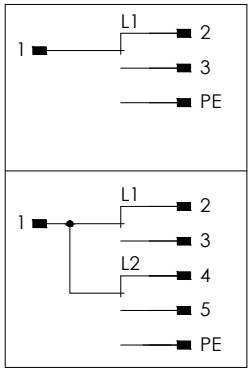


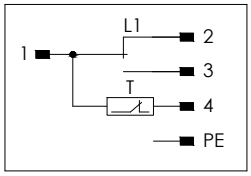


Plug connection
3 pol.+PE
IP67

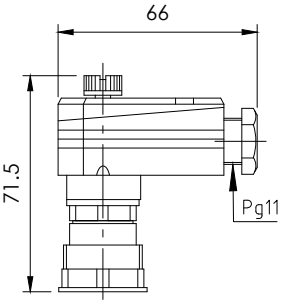


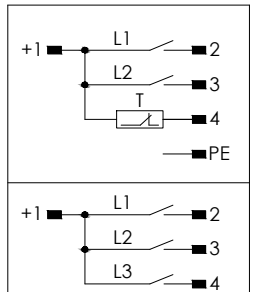
Circuit diagram
02 = fixed-changeover / 04 = adjustable-changeover



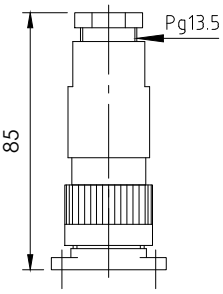


Plug connection
6+PE IP65
EN 175201-804
(DIN 43651)

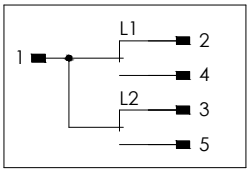




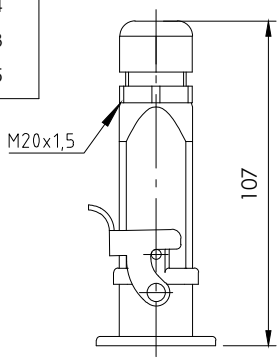
Plug connection
6 pol.+PE
IP67

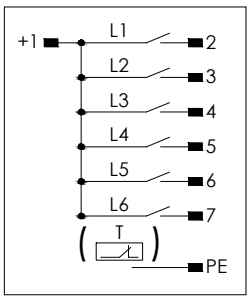


Circuit diagram
02 = fixed-changeover /
04 = adjustable-changeover



Plug connection
HAN II
IP65





Plug connection
HAN I
IP65