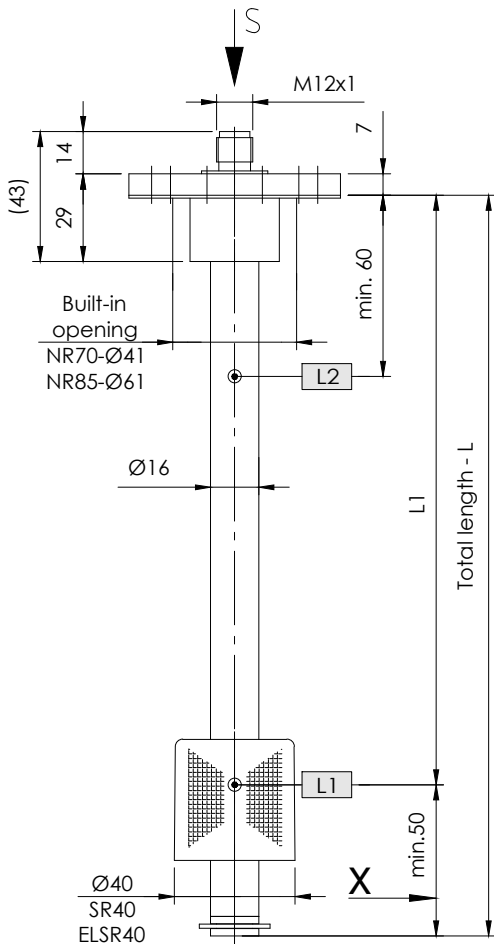


# NR 70 / 85

## Level regulator for tank insert

serial No. Date  
IN - GB - 102 - 11/25



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)

for VA=stainless steel only contacts 01, 02

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

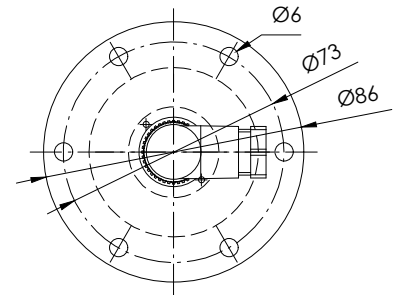
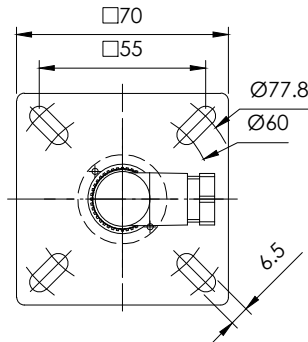
Operating voltage  
VDC 10-36 = 24V  
VAC 10-230 = 250V

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



## 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 150mm<sup>2</sup>/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

Medium density

Ceramic, Type: ELSR40

Level contacts

0,80 kg/dm<sup>3</sup> min.

Operating voltage

bistable make / break / changeover

Contact details

optional fixed or adjustable

Thermal elements

250V AC / DC max.

Thermal contacts

Datasheet: IN-GB-003/004

Thermal contacts

Pt100 / Pt1000 DIN EN 60751

Thermal contacts

Datasheet: IN-GB-005

Thermal contacts

Switchpoint: ± 5K

Number of functions

Hysteresis: 20K ± 5K

Mounting position

max. 3 can be incorporated

vertical ± 30°

Technical data



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# Level regulator

## Plug variants and terminal pin assignment

serial No. Date  
IN - GB - 102 - 11/25

Standard pin assignment  
Function with increasing level / temperature

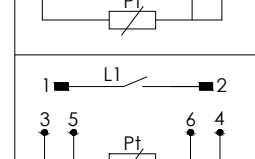
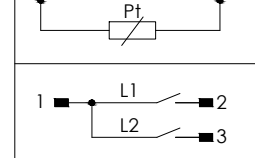
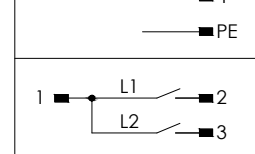
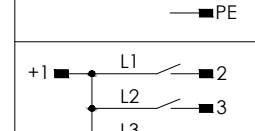
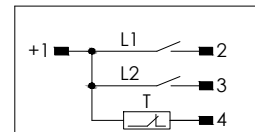
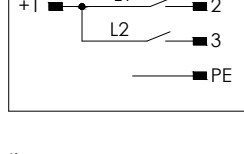
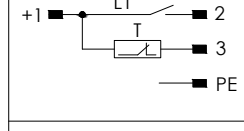
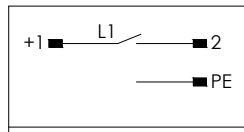
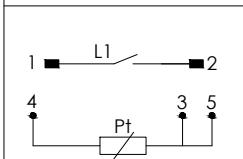
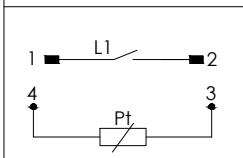
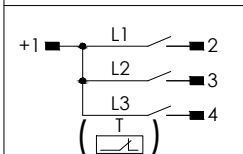
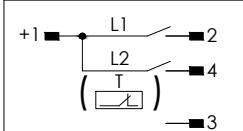
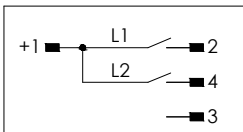
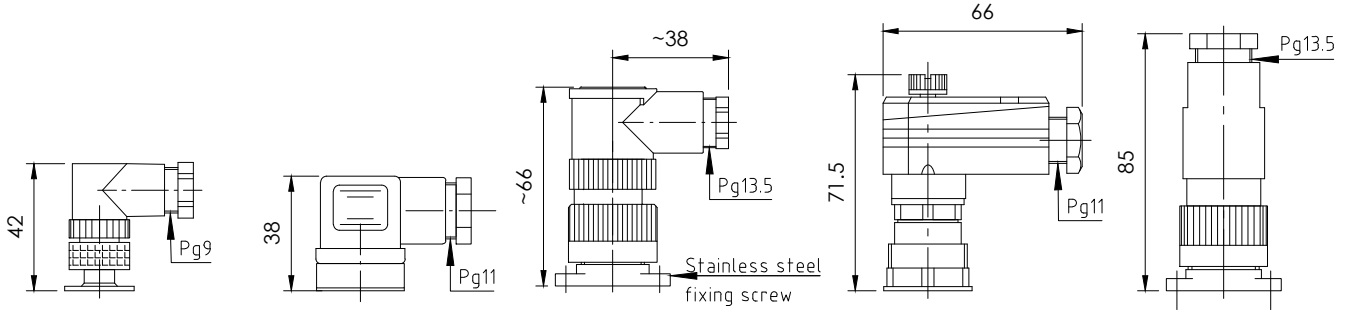
Plug connection  
M12 IP67  
5-polig

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

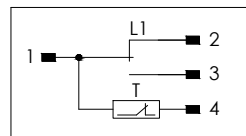
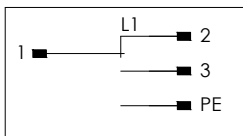
Plug connection  
3 pol.+PE  
IP67

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

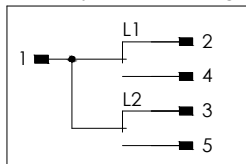
Plug connection  
6 pol.+PE  
IP67



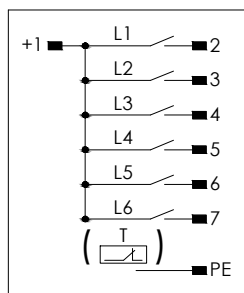
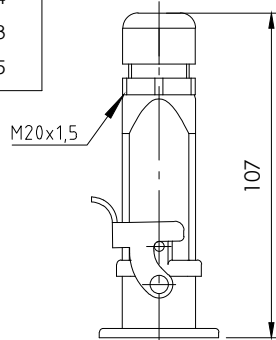
Circuit diagram  
02 = fixed-changeover / 04 = adjustable-changeover



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



Plug connection  
HAN II  
IP65



Plug connection  
HAN I  
IP65

