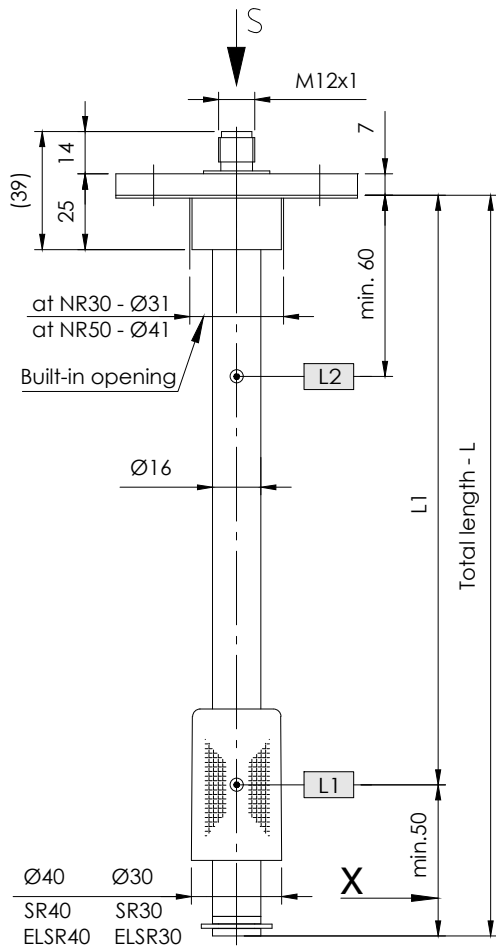


NR 30 / 50

Level regulator for tank insert

serial No. Date
IN - GB - 101 - 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

NR30-SR30-L370-03-L1/300/S-T70Ö-MS-M12-24V

Tank connection:
Flange NR30
Flange NR50

Float type
SR30
EL SR30
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
Function with
increasing level

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

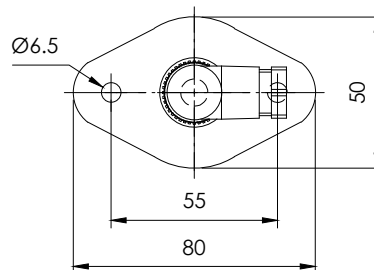
Operating voltage
VDC 10-36 = 24V
VAC 10-230 = 250V

Pt100
Pt1000
Thermal contact

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

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

View S -
Example Flange NR30/50 and Connector



Description

The level regulator type NR 30 / 50 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 = 800mm
Connection flange	NR30 / NR50, (PA) Polyamide with flat seal
Nominal pressure	1 bar max.
Temperature of medium	100°C max.
Float	Hard PU, Type: SR30 / SR40 Ceramic, Type: ELSR30 / ELSR40
Medium density	0,80 kg/dm ³ 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
Thermal contacts	Datasheet: IN-GB-005
	Switchpoint: ± 5K
	Hysteresis: 20K ± 5K
Number of functions	max. 3 can be incorporated
Mounting position	vertical ± 30°

Technical data



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REGELUNGSTECHNIK GMBH

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Level regulator

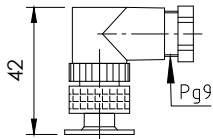
Plug variants and terminal pin assignment

serial No. Date
IN - GB - 101 - 05/23

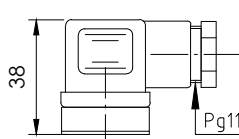
Standard pin assignment

Function with increasing level / temperature

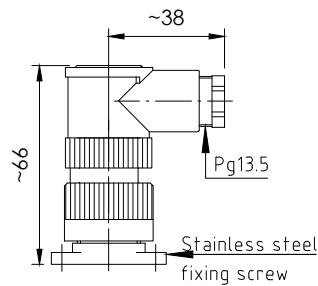
Plug connection
M12 IP67
5-polig



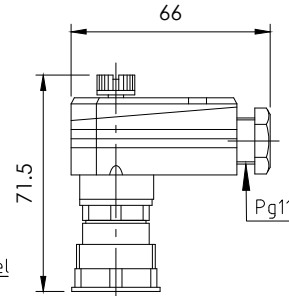
Plug connection
3+PE IP65
EN 175301-803
(DIN 43650)



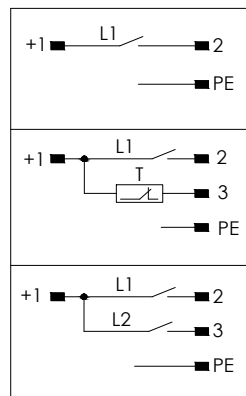
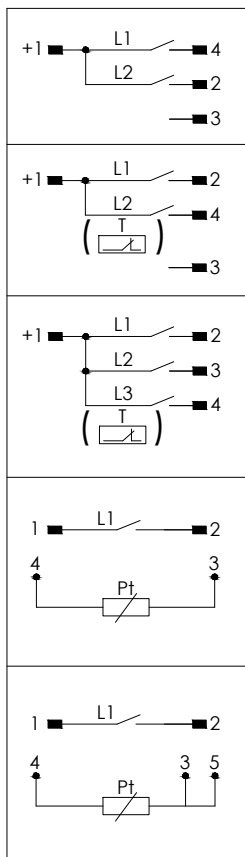
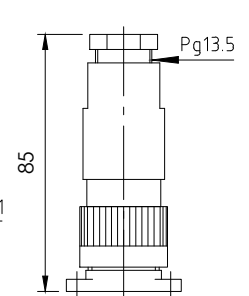
Plug connection
3 pol.+PE
IP67



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



Plug connection
6 pol.+PE
IP67



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

