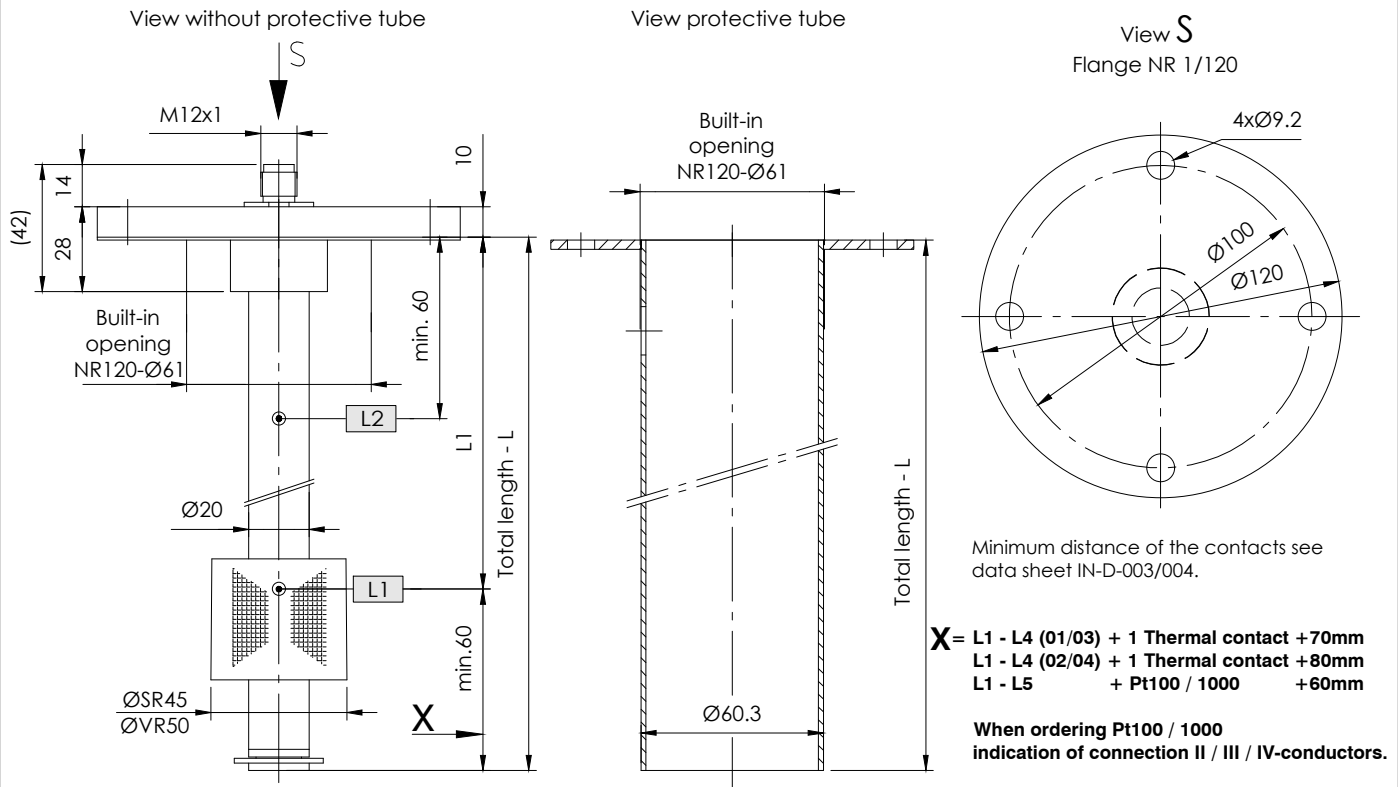


NR 1 / 120

Level regulator for tank insert

serial No. Date
IN - GB - 116 - 02/24



Specimen order

NR 1/120 - O - SR45 - L370 - 03 - L1/300/S - T70Ö - MS - M12 - 24V

Order code

Tank connection:
Flange NR 1/120

O=without protective tube
S=Protective tube

Float type
SR45
VR50

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-L5/
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)

Execution:
MS - Brass
Switching tube
VA - Stainless steel
Flange,
Switching tube,
Protective tube

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

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

Description

The level regulator type NR 1/120 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, mounted as an adjustable contact cartridge on a perforated strip. 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 320mm²/S

Technical data

Protective tube	Stainless steel (VA)
Switching tube	Brass (MS), Stainless steel (VA) max. L = 3000mm
Connection flange	NR120, VA with flat seal
Nominal pressure	1 bar max. - Float SR45 10 bar max. - Float VR50
Temperature of medium	100°C max.
Float	Hard PU, Type: SR45 Stainless steel, Type: VR50
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 Datasheet: IN-GB-005
Thermal contacts	Switchpoint: ± 5K Hysteresis: 20K ± 5K Datasheet: IN-GB-006
Number of functions	max. 5 can be incorporated
Mounting position	vertical ± 30°

Technical data



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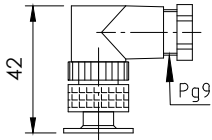
Level regulator

Plug variants and terminal pin assignment

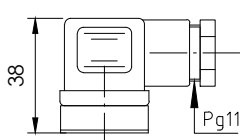
serial No. Date
IN - GB - 116 - 02/24

Standard pin assignment
Function with increasing level / temperature

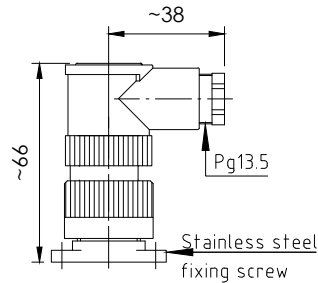
Plug connection
M12 IP67
5-polig



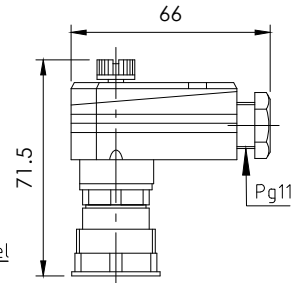
Plug connection
3+PE IP65
EN 175301-803
(DIN 43650)



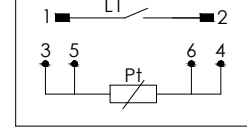
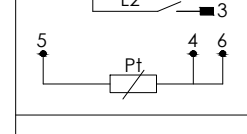
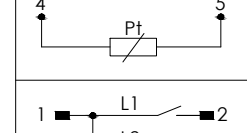
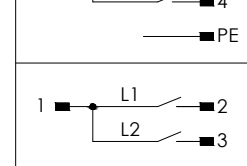
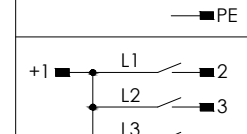
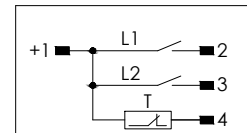
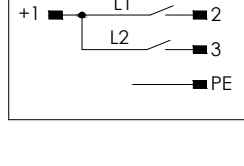
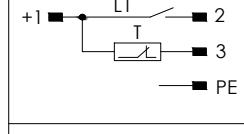
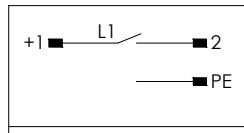
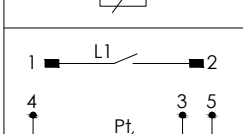
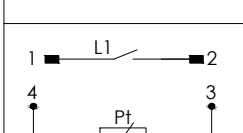
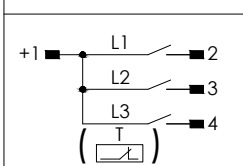
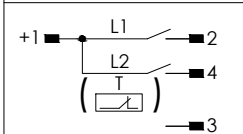
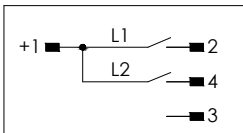
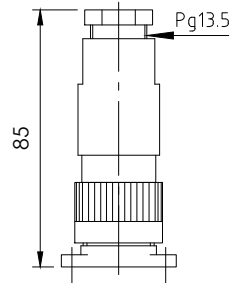
Plug connection
3 pol.+PE
IP67



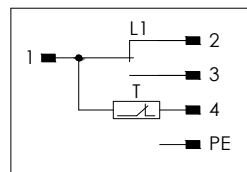
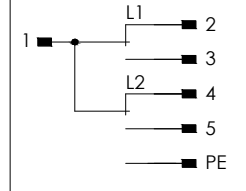
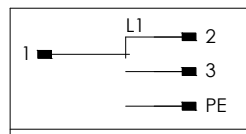
Plug connection
6+PE IP65
EN 175201-804
(DIN 43651)



Plug connection
6 pol.+PE
IP67



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



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

