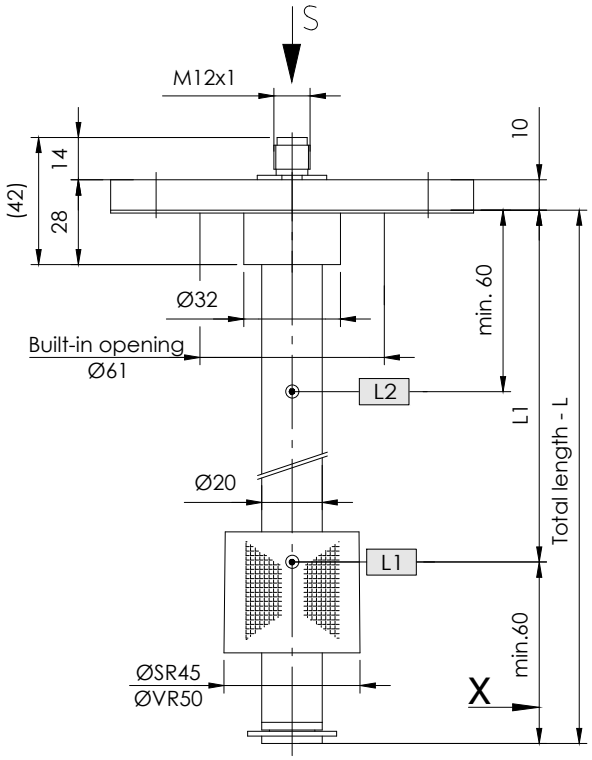
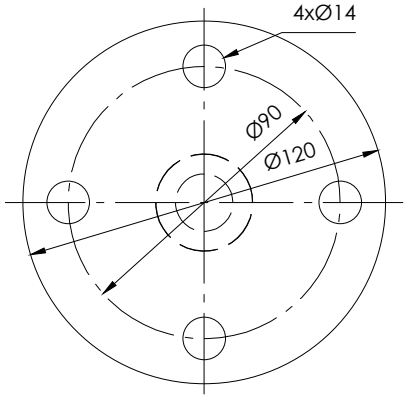
NR 6 / 32

Level regulator for tank insert

serial No. Date
IN - GB - 119 - 02/24



View S
Flange NR 6/32



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

X= L1 - L4 (01/03) + 1 Thermal contact +70mm
L1 - L4 (02/04) + 1 Thermal contact +80mm
L1 - L5 + Pt100 / 1000 +60mm

When ordering Pt100 / 1000 indication of connection II / III / IV-conductors.

Order code

Specimen order

NR 6/32 - SR45 - L370 - 03 - L1/300/S - T70Ö - MS - M12 - 24V

Tank connection: Flange NR 6/32

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

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

Plug socket connector:
M12 - 24V
3+PE-DIN 43650
6+PE-DIN 43651
AG 80x82x55-
(Connection housing)

Technical data

Description

The level regulator type NR 6/32 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

Switching tube	**Brass (MS), Stainless steel (VA) max. L =6000mm**
Connection flange	**NR 6/32, 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/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** **Datasheet: IN-GB-006**
Number of functions	**max. 5 can be incorporated**
Mounting position	**vertical ± 30°**

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SCHÖLLERSHEIDER STR. 15 TELEFON 02104/12093
POSTFACH 10 02 17 TELEFAX 02104/12028
D-40802 METTMANN www.Goldammer-Regelungstechnik.com
info@goldammer-regelungstechnik.com

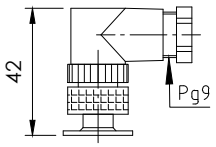
Level regulator

Plug variants and terminal pin assignment

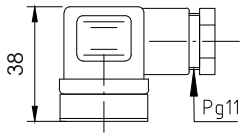
serial No. Date
IN - GB - 119 - 02/24

Standard pin assignment
Function with increasing level / temperature

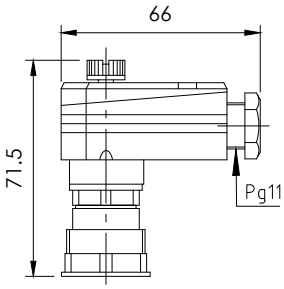
Plug connection
M12 IP67
5-polig



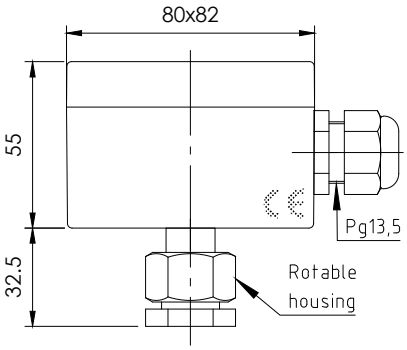
Plug connection
3+PE IP65
EN 175301-803
(DIN 43650)

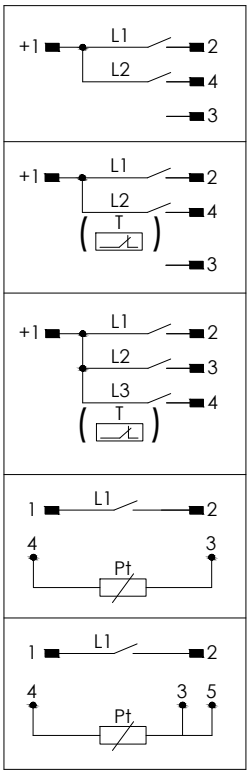


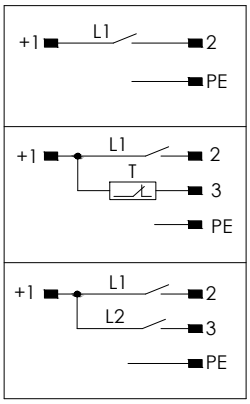
Plug connection
6+PE IP65
EN 175201-804
(DIN 43651)



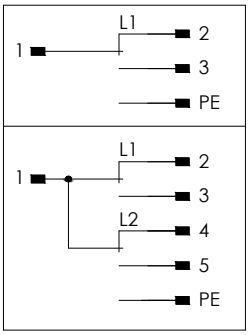
Plug connection
Connection housing (AG)
80x82x55

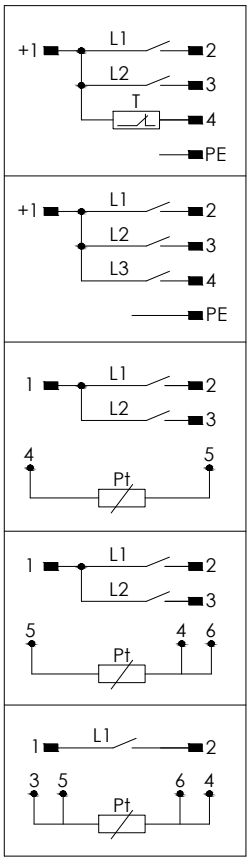






Circuit diagram
02 = fixed-changeover

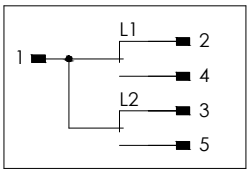




Terminal block

Connection Variants
project-related

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



Circuit diagram
04 = adjustable-changeover