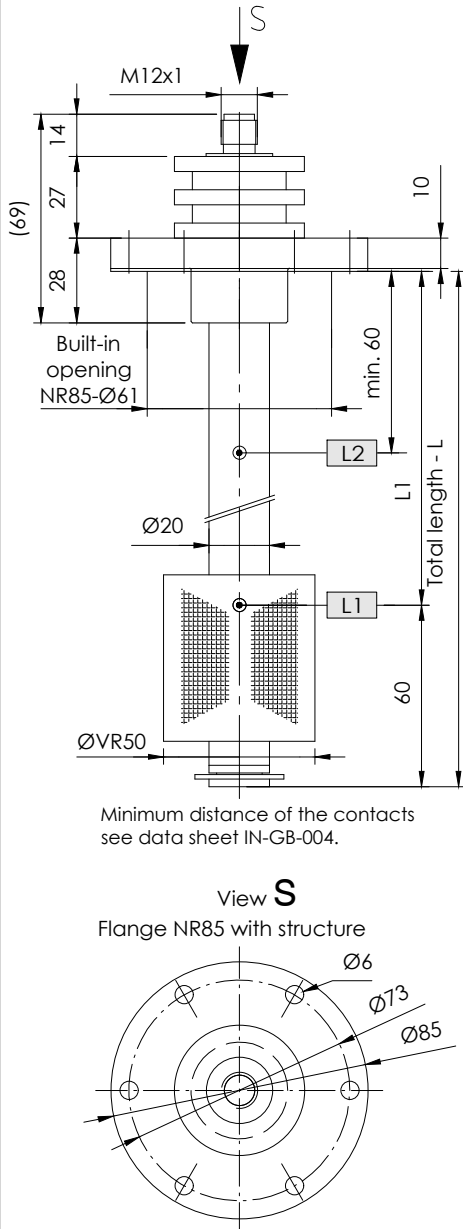


# NR 85 - TMA - 150°C

Level - temperature regulator for tank insert  
Temperature output 4-20mA

serial No. Date  
MA - GB - 302 - 06/24



Order code

## Specimen order

**NR85-TMA-150°C-VR50-L300-02-L1/200/S-VA-M12-24V**

Tank-connection:  
Flange NR85

Float-Type  
VR50

Total Length-L  
switching tube (mm)

Level contact type  
02 = fixed, changeover

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

Execution:  
VA - Stainless steel  
Flange,  
Switching tube,  
Float

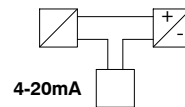
Plug socket connector:  
M12 - 24V  
3+PE-DIN 43650  
6+PE-DIN 43651

Plug assignment

### Plug assignment power supply

- 1 = Temperature
- 2 = +24VDC
- 3 = combined L1-L3
- 4 = L1
- 5 = L2
- 6 = L3

### Temperature

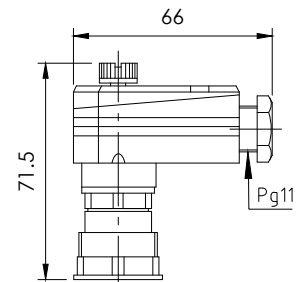
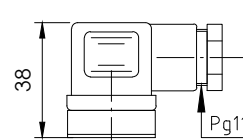
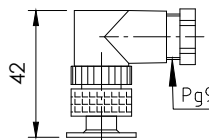


Connector variants

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)



## Description

The level regulator type NR 85 - TMA - 150°C for tank insert is a solenoid switch operating without contact with the function of monitoring and regulating liquid levels and temperatures. Bistable protective gas contacts are permanently arranged in the switching tube. The contacts can be connected as changeover contact, break contact and make contact. The permanent magnet built into the float switches the contacts when the level changes. The switching difference (hysteresis) is 4 mm. For temperature monitoring, the temperature-dependent signal emitted by a Pt100 resistor mounted in the switching tube is converted into a temperature-linear current change of 4-20mA using the built-in transmitter. The level controller is maintenance - free when nondeposit media are used. In the case of remote installation, care must be taken to ensure a low-loss connection between the display unit and the sensor tube. For inductive loads, a protective circuit must be provided (free-wheeling diode/RC element).

The device must only be installed by specialists.

Max. viscosity 320mm<sup>2</sup>/S

## Technical data

Switch tube	Stainless steel (VA) max. L = 2000mm
Connecting flange	NR85, (VA) Stainless steel with flat seal Viton
Nominal pressure	10 bar max. - Float VR50
Temperature of medium	150°C max.
Float	VA, Type: VR50
Level contacts	bistabil, changeover max. 2 adjustable Datasheet IN-GB-004
Switching current	Datasheet IN-GB-004
Switching capacity	Datasheet IN-GB-004
Operating voltage	12V ... 30V DC
Measuring range	4-20 mA = 0-160°C
Thermal element	Pt100 Datasheet IN-GB-005
Load	RB = U-12V 20mA
Number of functions	max. 3 adjustable
Installed position	vertical ± 30°

Other temperature ranges on request.

Technical data



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