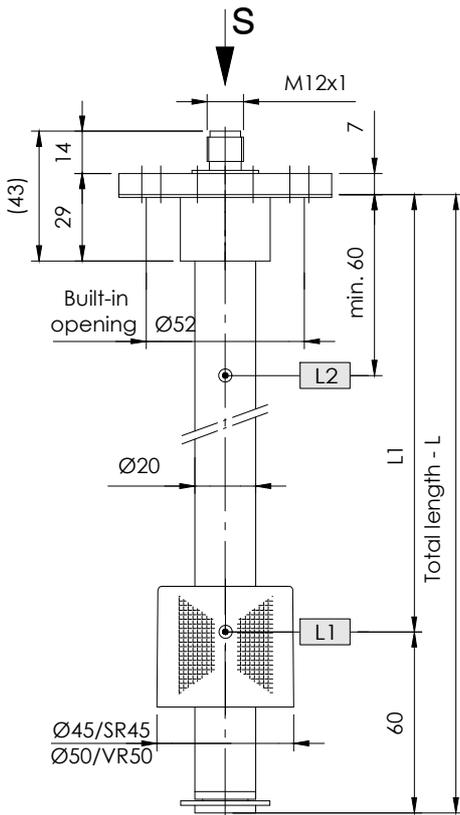


NR 70 - TMA

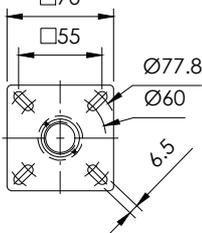
Level - temperature regulator for tank insert
Temperature output 4-20mA

serial No. Date
MA - GB - 300 - 06/24



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

View **S**
Flange NR70



Order code

Specimen order

NR70-TMA - SR45-L300-03-L1/200/S-MS-M12-24V

Tank-connection:
Flange NR70

Total Length-L
switching tube (mm)

Switching point L1-L3/
mm from sealing edge

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

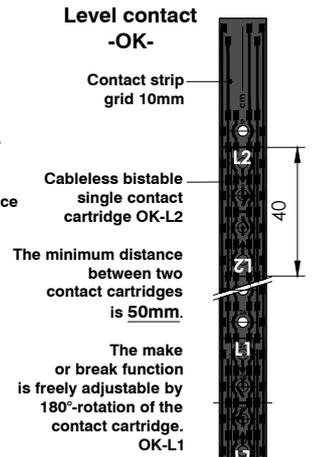
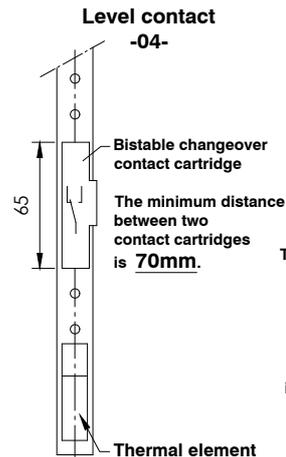
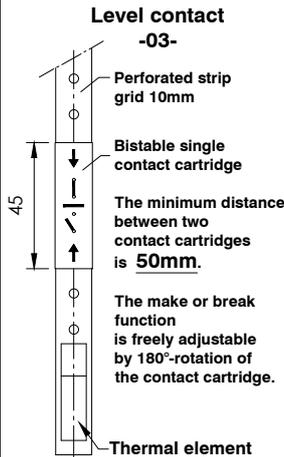
Float-Type
SR45
VR50

Level contact type
OK=cordless contact
(max.500mm)
01 = fixed, plain
02 = fixed, changeover
03 = adjustable, plain
04 = adjustable, changeover

O = break
S = make
W = changeover
Function with
increasing level

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

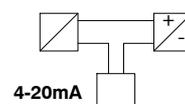
Plug assignment



Plug assignment power supply

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

Temperature



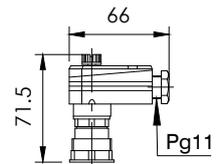
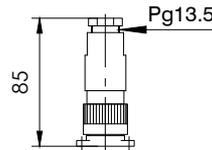
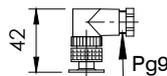
Pt100

Connector variants

Plug connection
M12 IP67
5-polig

Plug connection
6 pol.+PE
IP67

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



Technical data

Description

The type NR 70 TMA level controller for installation in tanks is a contactless - operating magnetic switch and is used for monitoring and controlling liquid levels and temperatures.

Bistable protective gas contacts are installed in the switch tube as contact cartridges adjustable on a contact strip. The contact cartridges can be retrospectively adjusted in height in increments of 10 mm.

In the case of fixed contacts, the contact distances and their function must be specified. Contact cartridges can be adjusted in height at a later date.

The break or make function can be changed by rotating the cartridge 180°. The permanent magnet fitted in the float switches the contacts if 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. 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

Switch tube	Brass (MS), Stainless steel (VA) max. L = 2000mm
Connecting flange	NR70, (PA) Polyamide or (VA) Stainless steel with flat seal
Nominal pressure	1 bar max. - Float SR45, Hart PU 10 bar max. - Float VR50, VA
Temperature of medium	100°C max.
Float	Hart-PU, Type: SR45 VA, Type: VR50
Level contacts	OK - bistabil, make / break max. 2 adjustable make / break / changeover Datasheet IN-GB-003/004 Datasheet IN-GB-003/004
Switching current	12V ... 30V DC
Switching capacity	4-20 mA = 0-100°C
Operating voltage	Pt100
Measuring range	RB = U-12V 20mA
Thermal element	
Load	
Number of functions	max. 3 adjustable
Installed position	vertical ± 30°
Other temperature ranges	on request.



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