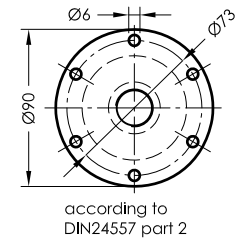
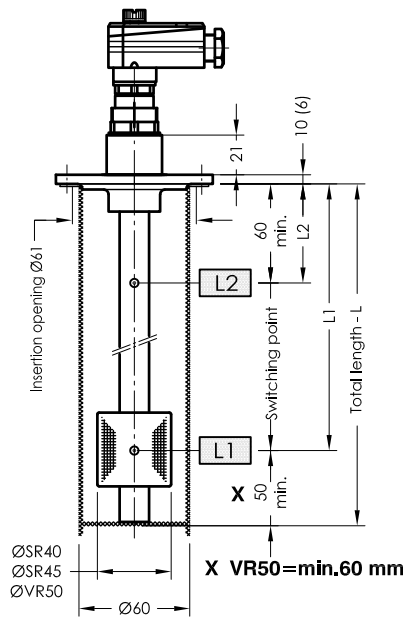


NR 85 - TMA

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

serial No. Date

MA-GB- 301 04/19

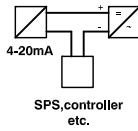


Pin assignment

Plug securing power supply

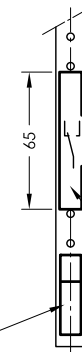
- 1 = Temperature
- 2 = +24V DC
- 3 = combined
- L1-L3
- 4 = L1
- 5 = L2
- 6 = L3

Temperature



Thermal element

Level contact -04-



The minimum distance between two contact cartridges is 50mm.

The make or break function is freely adjustable by 180°-rotation of the contact cartridge. OK-L1

Bistable changeover-contact cartridges. The minimum distance between two fixed contact cartridges is 70mm.

Level contact -OK-

Contact strip grid 10mm

Cableless bistable single contact cartridge OK-L2



Level contact -03-

Strip with perforations 10mm

Bistable plain-contact cartridges. The minimum distance between two contact cartridges is 50mm.

The make or break function is freely adjustable by 180°-rotation of the contact cartridge. Thermal element

Pt100

Specimen order

NR 85 - TMA - SR45 - L300 - 03 - L1/200/S - MS - M12

TMA = without protective tube
TMA5 = with protective tube

Float type
SR40
SR45
VR50

Total length-L
switching tube (mm)
standard length
L = 280 L = 800
L = 370 L = 1000
L = 500 L = 1200

OK = cordless contact max. L = 500
01 = fixed, plain
02 = fixed, changeover
03 = adjustable, plain
04 = adjustable, changeover

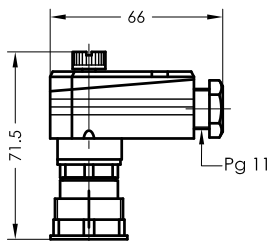
Switching point L1-L3/mm
from sealing edge
Ö = break
S = make
W = changeover
Function with increasing level

Plug socket connector
DIN 43651
M12

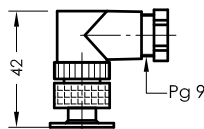
Execution
MS = Brass
VA = Flange, Switching tube, Protective tube and float
stainless steel
VAPA = Flange PA, Switching tube stainl. steel

Connector variants

DIN 43651
(EN 175201-804)
6+PE
IP 65



Serie M12
IP 67



Technical data

Description

The level temperature regulator type NR 85 - TMA 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, the temperature dependent signal emitted from a Pt100 resistor mounted in the contact tube is converted with the installed transducer into a temperature linear current change of 4-20mA.

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 SR40 / SR 45 - 320mm²/S
VR 50 - 320mm²/S

Technical data

Protective tube	Stainless steel
Switching tube	Brass or stainless steel max.L = 2000mm
Connection flange	Polyamid or stainless steel with flat seal Hard-PU SR 40 / SR45
Nominal pressure	10 bar max. - float Stainless steel VR5
Temperature of medium	100°C max.
Switching potential	Datasheet IN - GB - 003(004)
Operating voltage	12V ... 30V DC
Measuring range	4-20 mA = 0-100°C
Thermal element	Pt100
Number of functions	max. 4 can be incorporated
Load	RB = U-12V 20mA
Mounting position	vertical ± 30°
Other temperature ranges	on request



GOLDAMMER