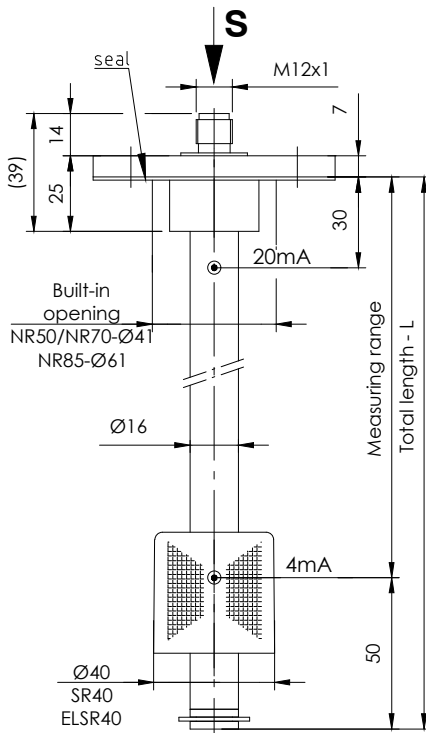


NR 50/70/85 - MA - EExi

Level - temperature regulator with resistance measuring chain and resistance thermometer, output 4-20 mA



serial No. Date
EX - GB - 305 06/26



View S

Flange NR50

Flange NR70

Flange NR85

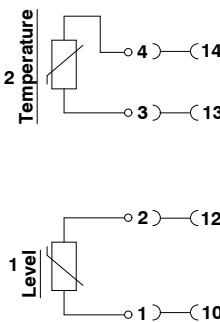
Plug assignment

Order code

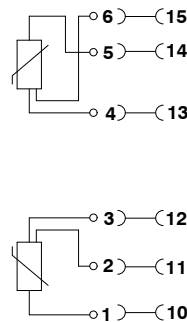
Connector variants

Input Configuration

2 - conductor



3 - conductor



Ex-Zone

No-Ex-Zone



contained in the scope of delivery:
0/4-20mA Transmitter - sheet EX-GB-902
Measuring range configured
Item number 9182/10-51-13 - 1-channel level
Item number 9182/20-51-11 - 2-channel level
+temperature

Specimen order

NR50 - MA - EExi - SR40 - L370 - T - MS - II - M12

Tank-connection:
Flange NR50
Flange NR70
Flange NR85

Float-Type
SR40
ELSR40

T = Temperature
O = without
Temperature

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

Total length-L (special length)
switching tube (mm)
Standard length

L=250 L= 700
L=370 L= 800
L=500 L= 900
L=600 L=1000

Execution:
MS - Brass
PA - Polyamide,
Flange

II = 2 - conductor
III = 3 - conductor

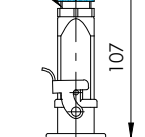
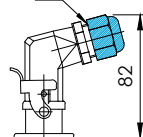
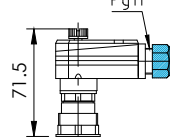
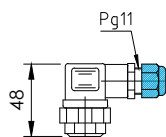
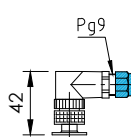
Plug connection
M12 IP67
5-polig

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

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

HAN I
IP65

HAN II
IP65



Description

The level temperature regulator, type NR 50 / 70 / 85 - MA - EExi designed for container installation, is a contactless electromagnetic switch serving for continuous teletransmission of liquid levels and temperature. Via cables of any length, level and temperature can be continuously evaluated for automatic control and display. The level controller contains a resistance measuring chain and a Pt100 resistor. As the fill level changes, the total resistance changes and is converted into a 4-20 mA signal by an Ex-approved transmitter (sheet EX-D-902) installed in the non-hazardous (EX) area. As the temperature changes, the Pt100 alters its resistance, which is likewise converted into a 4-20 mA signal in the non-hazardous (EX) area.

The level controller is maintenance-free when nondeposit media are used.

The device must only be installed by specialists.

Max. viscosity 320mm²/S

Technical data

Switching tube
Connecting flange

Nominal pressure
Temperature of medium
Float

Measuring range
Thermal element
Measurement chain

Contact grid
electrical Connection

Installed position

Other temperature ranges on request.

Brass (MS), max. L = 1000mm
NR50 / NR70 / NR85, (PA)-Polyamide with flat seal
1 bar max.
100°C max.
Hart-PU, Type: SR40
Ceramic, Type: ELSR40
4-20 mA = 0-100°C
Pt100, II / III-conductor / Datasheet: IN-005
II / III-conductor for connection to EExi transmitters
7,5mm
For connection to certified intrinsically safe circuits in type of protection EExi only, EN 60079-11, suitable for Group II Category 2 (Zones 1 and 21), Category 3 (Zones 2 and 22), temperature class IIC-T4, vertical ± 30°

Technical data



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