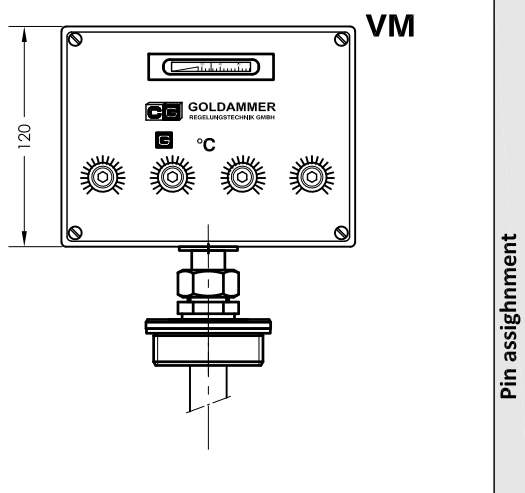
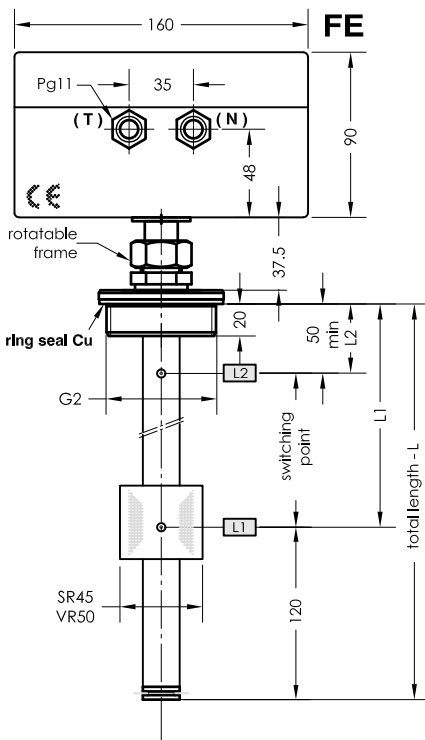


NTR ... - K3 / K4

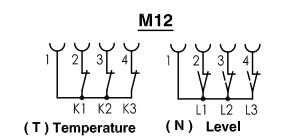
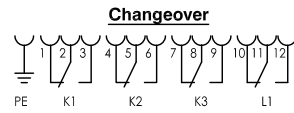
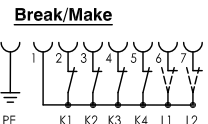
Level - Temperature - Capillary tube - Regulator

serial No. Date
NT-GB- 400b 01/19



Pin assignment

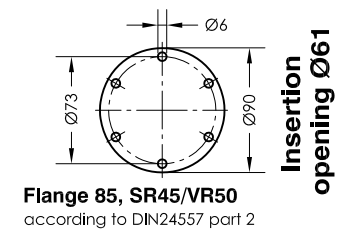
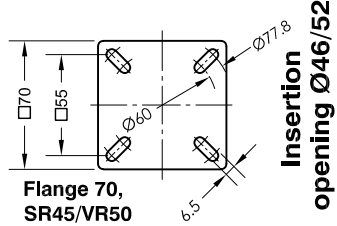
Terminal diagram



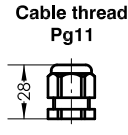
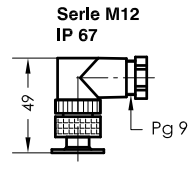
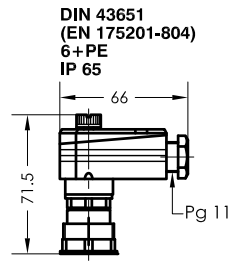
Specimen order

NTR 70 -SR45-K3-A-FE-L370-01-L1/250/S-T70Ö- I-VA-M12

<p>Connection G2 70 85</p> <p>Float type SR45 VR50</p> <p>Temperature K3= 3 contact K4= 4 contacts</p> <p>A= Indication of actual temperature O= without indication</p>	<p>Switching point L1-L3/ mm from sealing edge Ö = break S = make W= changeover Function with increasing level</p> <p>Level contact type 01 = fixed, plain 02 = fixed, changeover 03 = adjustable, plain</p> <p>Total length (mm)</p>	<p>Execution MS = Brass VA = stainless steel</p> <p>Plug socket connector DIN 43651 2 x M12 Cable thread Pg11</p> <p>I = 0 to 120°C</p>
<p>Order code</p>	<p>Construction FE= permanent installation VM= vertical installation</p>	<p>Pt100 Thermal contact T10Ö T40Ö T50Ö T60Ö (S) (Ö) T70Ö (S) preferred T80Ö (S) T90Ö (Indicate T1... - T2... for two thermal contacts)</p>



Connector variants



Description

The level - temperature - capillary tube - regulator NTR ... K3 / K4 for tank insert is a combined unit for level and temperature regulation.

To monitor the level, the switching tube contains bistable level contacts. They may be fixed or alternatively mounted as an adjustable contact cartridge on a perforated strip. The permanent magnet built into the float switches the contacts when the level changes. The switching difference (hysteresis) is 4mm. The temperature is regulated with the capillary tube device. It operates on the principle of liquid expansion. The thermal probes are located in the lower half of the switching tube. A maximum of 4 temperature contacts, adjustable from 0 to 120°C and an actual temperature display for 0 to 120°C can be incorporated. For temperature monitoring and regulation, thermal elements such as Pt100 and thermal contacts can be additionally incorporated. The cable connections are made with series terminals of 1,5 mm². For inductive loads, a protective circuit must be provided (free-wheeling diode/RC element).

The device must only be installed by specialists.
With optional plug socket connector 6 pol.+PE IP65 or serie M12 IP67. Max. Viscosity ISO VG 100/320

Technical data

Switching tube	Brass, max. L = 1000mm
Switch cabinet	PC, IP65
Electric. connection	Cable thread Pg11 + series terminals 1,5mm ² , Tightening torque SEV 0,5Nm max.
Plug socket connector	DIN 43651 IP65 or serie M12 IP67 optional, with seal
Tank connection	1 bar max. VR 50 10bar max.
Nominal pressure	100 °C max.
Temp.of medium	Hard Pu SR45, stainless steel VR50
Float	bistable make/break/changeover
Level contacts	Datasheet IN - GB - 003(004)
Switching current	Datasheet IN - GB - 003(004)
Switching potential	Datasheet IN - GB -003(004), M12 24V - 4A
Temperature contacts	0 to 120°C, adjustable
Temperature range	0 to 120°C ±3°
Temperature display	±5k
Switching accuracy	5k±1k
Switching difference	Pt100, thermal contact
Thermal elements	max. 6 can be incorporated
Number of functions	Vertical ± 30°
Mounting position	Sheet TR-GB-507
*Thermal contact	

Technical data



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