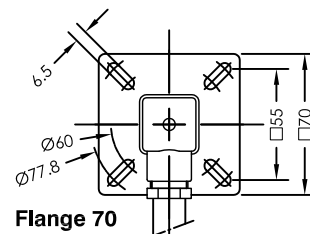
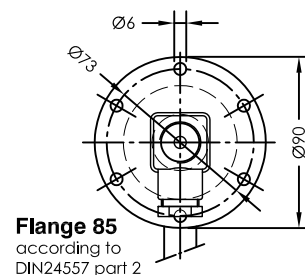
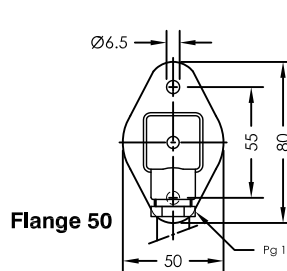
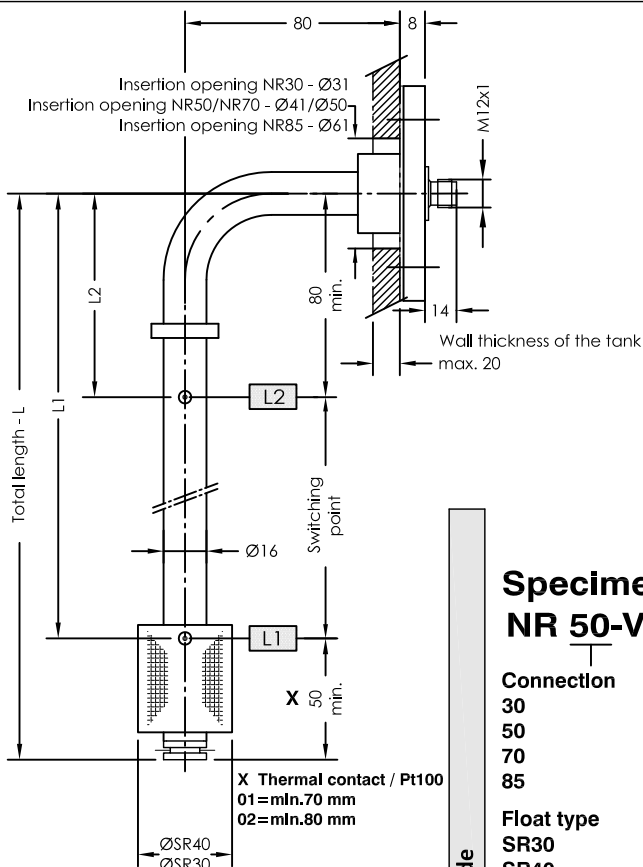


# NR 30 / 50 / 70 / 85 - V

## Level regulator for tank insert

serial No. Date  
IN-GB- 104 11/21



### Specimen order

**NR 50-V-SR40-L270-01-L1/200/S-T70Ö-M12-24V**

Connection  
30  
50  
70  
85

Float type  
SR30  
SR40

Total length-L  
switching tube (mm)

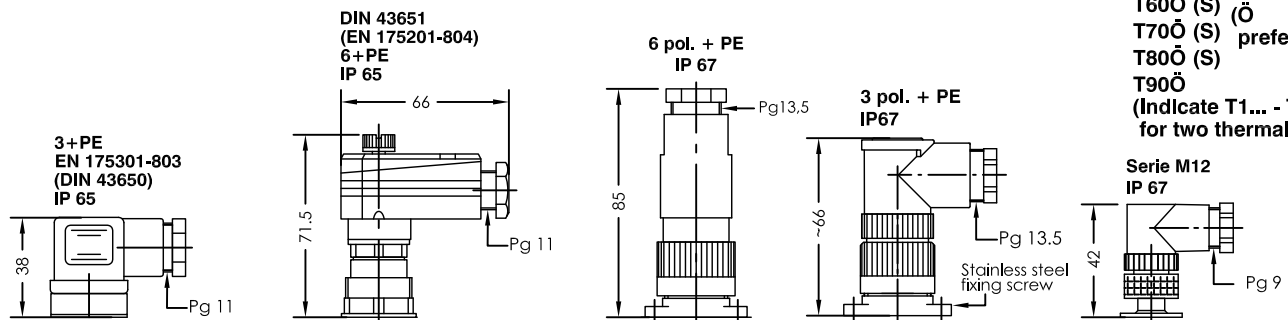
Level contact type  
01 = fixed, plain  
02 = fixed, changeover

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

Plug socket  
connector  
3+PE  
DIN 43651  
M12  
3 pol. + PE  
6 pol. + PE  
Operating voltage  
VDC 10-36 = 24V  
VAC 10-230 = 230V

Pt100  
Thermal contact  
T10Ö  
T40Ö  
T50Ö  
T60Ö (S) (Ö  
T70Ö (S) preferred  
T80Ö (S)  
T90Ö  
(Indicate T1... - T2...  
for two thermal contacts)

### Connector variants



### Description

The level regulator type NR 30 / 50 / 70 / 85 - V 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. For fixed contacts, the contact intervals and their functions must be given. The permanent magnet built into the float switches the contacts when the level changes. The switching difference (hysteresis) is 4 mm. For temperature monitoring and regulation, thermal elements such as Pt100 and thermal contacts can be additionally incorporated. 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 SR 30 - 150mm<sup>2</sup>/S, - SR40 - 320mm<sup>2</sup>/S

### Technical data

Switching tube	Brass, max.L = 1000mm
Connection flange	Polyamide with flat seal
Nominal pressure	1 bar max.
Temperature of medium	100°C max.
Float	Hard-PU, type SR30 / SR 40
Medium density	0,80 Kg/dm <sup>3</sup> min.
Level contacts	bistable make/break/changeover
Switching potential	Datasheet IN - GB - 003(004)
Thermal elements	Pt100, thermal contact
Number of functions	max. 3 can be incorporated
Mounting position	vertical ± 30°



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

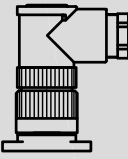
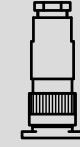
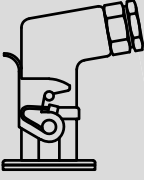

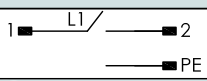
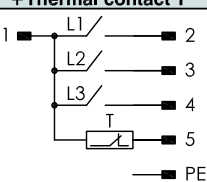
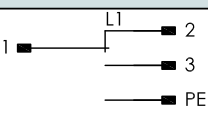
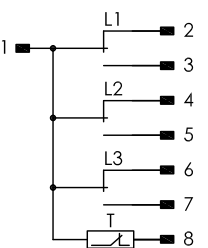
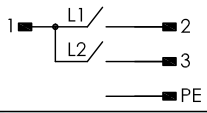
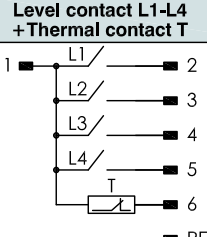
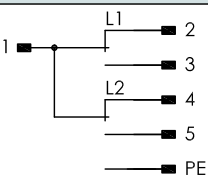
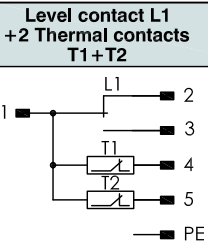
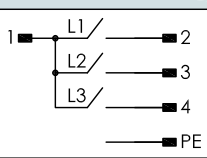
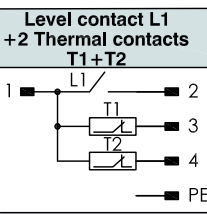
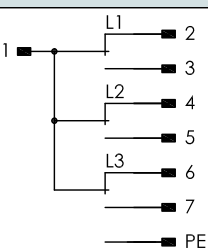
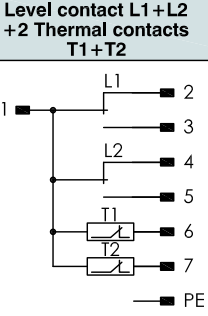
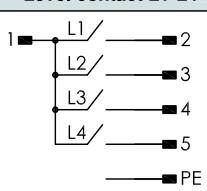
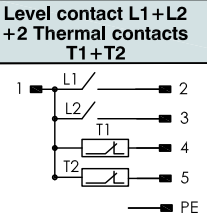
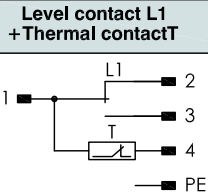

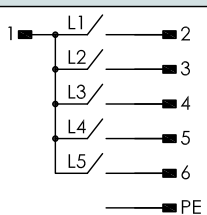
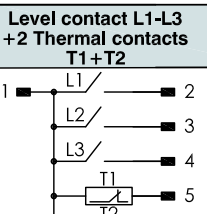
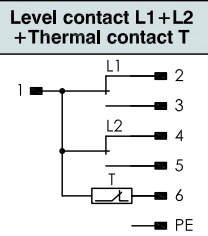

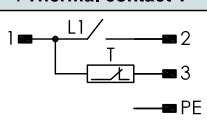
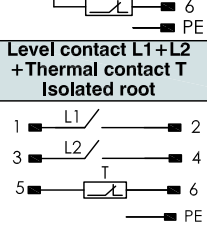
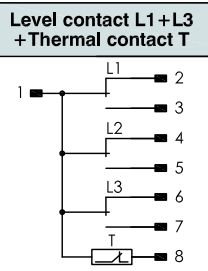
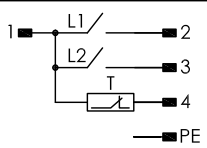
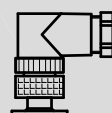
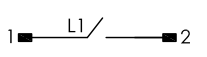
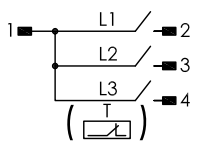
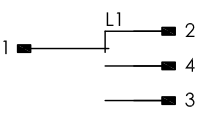
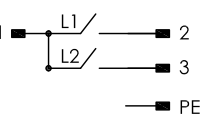
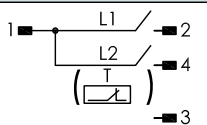
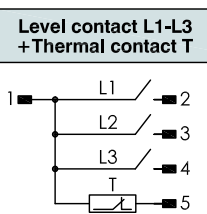
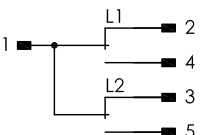
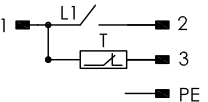
# Connector versions and pin assignment

Level contact = L1 lowest contact

Temperature sensor mounted at the lowest position

serial No. Date

IN-GB- 001 03/21

Connector versions	Level contact 01/03		Level contact 02/04	
 <p>Plug socket connector 3+PE IP65 EN 175301-803 (DIN 43650)</p>  <p>Plug socket connector 6+PE IP65 EN 175201-804 (DIN 43651)</p>  <p>Plug socket connector 3 pol.+PE IP67</p>  <p>Plug socket connector 6 pol.+PE IP67</p>  <p>Plug socket connector HAN I IP65</p>  <p>Plug socket connector HAN II IP65</p>	<b>Level contact L1</b> 	<b>Level contact L1-L3 + Thermal contact T</b> 	<b>Level contact L1</b> 	<b>Level contact L1-L3 + Thermal contact T</b> 
	<b>Level contact L1+L2</b> 	<b>Level contact L1-L4 + Thermal contact T</b> 	<b>Level contact L1+L2</b> 	<b>Level contact L1 + 2 Thermal contacts T1+T2</b> 
	<b>Level contact L1-L3</b> 	<b>Level contact L1 + 2 Thermal contacts T1+T2</b> 	<b>Level contact L1-L3</b> 	<b>Level contact L1+L2 + 2 Thermal contacts T1+T2</b> 
	<b>Level contact L1-L4</b> 	<b>Level contact L1+L2 + 2 Thermal contacts T1+T2</b> 	<b>Level contact L1 + Thermal contact T</b> 	<b>Level contact L1+L2 + Thermal contact T</b> 
	<b>Level contact L1-L5</b> 	<b>Level contact L1-L3 + 2 Thermal contacts T1+T2</b> 	<b>Level contact L1+L2 + Thermal contact T</b> 	<b>Level contact L1+L3 + Thermal contact T</b> 
	<b>Level contact L1 + Thermal contact T</b> 	<b>Level contact L1-L3 + 2 Thermal contacts T1+T2</b> 	<b>Level contact L1+L2 + Thermal contact T</b> 	
<b>Level contact L1+L2 + Thermal contact T</b> 	<b>Level contact L1+L2 + Thermal contact T Isolated root</b> 			
<b>Steckervarianten</b>	<b>Level contact 01/03</b>	<b>Level contact 02/04</b>	<b>Level contact 01/03</b>	<b>Level contact 02/04</b>
 <p>Plug socket connector Serie M12 IP67 Recommended value when used outside enclosed buildings or in damp locations 5 - polig 24V 4 - polig 250V (3+PE)</p>	<b>Level contact L1</b> 	<b>Level contact L1-L3(T)</b> 	<b>Level contact L1</b> 	<b>Level contact L1-L2</b> 
	<b>Level contact L1+L2(T)</b> 	<b>Level contact L1-L3 + Thermal contact T</b> 	<b>Level contact L1+L2</b> 	<b>Level contact 01/03 L1 - T</b> 



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