

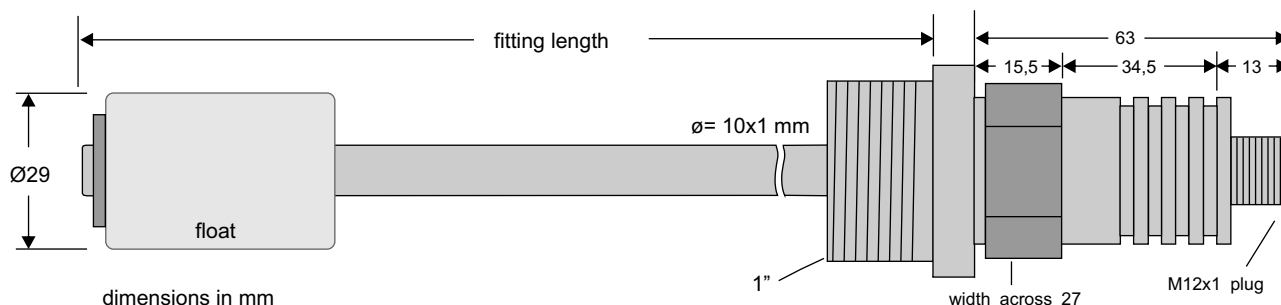
Modular and compact level sensor / switch

Characteristics



Level: 100 mm...6000 mm
 Medium: non aggressive fluids
 Option: RTD 2-wire (Pt100)
 Process terminal: several options available
 Output: 4...20 mA / contacts
 Protection: degree IP 67
 Protecting tube and case: stainless steel 1.4571
 Electrical connection: several options available
 System pressure: 25 bar maximum
 Voltage supply: 10...35 VDC (output: current)

Dimensions



Technical data

Input

Level: output contact: 100 mm...6000 mm
 output current: 100...500 mm
 Medium: fluids non aggressive
 Option: RTD 2-wire (Pt100)

Output

Contact: 2 make contact (minimum / maximum)
 switching capacity: 5 W / VA maximum
 switching voltage: 60 V AC/DC maximum
 switching current: 0,3 A maximum
 minimum current: 10 mA
 Current: 4...20 mA, 2-wire (in steps, every 6,5 mm)

Accuracy

Hysteresis: approx. 3 mm
 Resolution: steps every 6,5 mm (output: current)
 RTD: class A

Power supply (output: current)

Voltage: 10...35 VDC out of current loop

Ambient conditions

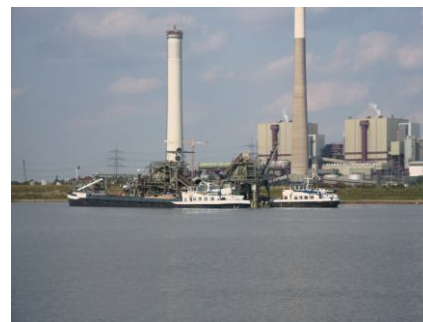
Operating temperature: 0...+85°C
 Temperature medium: 0...+100°C
 Storing temperature: -40...+100°C
 System pressure: 25 bar maximum

Mechanics

Dimensions: with MIL plug: Ø 31 x 86 mm + fitting length
 with valve plug: Ø 31 x 77 mm + fitting length
 with plug M12x1: Ø 31 x 63 mm + fitting length
 with cable entry: Ø 31 x 73 mm + fitting length
 protecting tube, body of case: stainless steel 1.4571
 float: PE
 Weight: with MIL plug, fitting length 100 mm: approx. 260 g
 with valve plug, fitting length 100 mm: approx. 220 g
 with plug M12x1, fitting length 100 mm: approx. 220 g
 with cable gland, fitting length 100 mm: approx. 220 g
 Connections: MIL plug D 38999, 6-pole
 valve plug DIN EN 175301-803, 4-pole
 plug M12x1, RSE4 compatible, 6-pole
 screwed cable gland M12x1,5 MS-SC-M, 2 m cable
 degree IP 67
 Protection: degree IP 67

Applications

Suitable as a level limiting value switch, a level sensor in simple control loops or as indication for tendency of level. For use in industrial plants, terotechnology and public utility (eg tanks for hydraulic oil). Due to the used materials and the compact design, this sensor with its small dimensions is very robust.



photos: www.pixelquelle.de

Ordering code

M	N	X	X	X	X	X	X	-	X	X	X
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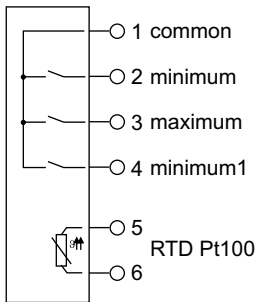
Material:	stainless steel	0									
Output:	contacts (min / max)	0									
	contacts (min / max / min1)	1									
	contacts (min / max / max1)	2									
	4...20 mA (maximum length 500 mm)	3									
Fitting length:	100 mm	1									
	200 mm	2									
	300 mm	3									
	400 mm	4									
	600 mm	5									
	1000 mm	6									
	other length (please indicate)	7									
Process connection:*	1"					4					
	1,5"					5					
	1" NPT					9					
	flange-mounted (DIN)					A					
	other connection (please indicate)					B					
Connection:	screwed cable gland with 2 m cable						0				
	MIL plug D3899, 6-pole						1				
	valve plug DIN EN 175301-803, 4-pole**						2				
	M12x1, 6-pole, RSE4 compatible						3				
RTD:	without							0			
	with Pt100, 2-wire							1			
Resolution:	step every 6,5 mm (output: current loop)								0		
Other / accessories:	special model										0

*please note: For connection 1/4" (ID= 0), 3/8" (ID=1), 1/2" (ID=2), 3/4" (ID=3), 1/4" NPT (ID=6), 3/8" NPT (ID=7) and 1/2" NPT (ID=8) the diameter of the float is bigger than the thread of the process connection. The float has to be fixed inside the tank.

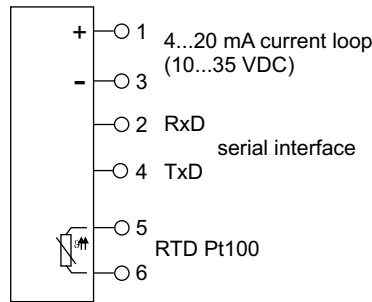
**with valve plug RTD is not possible.

Connection (Examples)

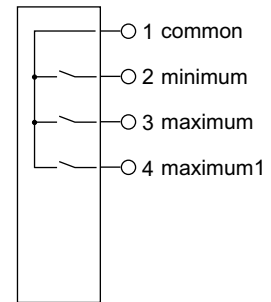
model with contacts (MN01XX31-0XXX)



model with analogue output (MN03XX31-0XX)



model with contacts (MN02XX20-0XXX)



Definitions

