

MAGNETIC FLOAT LEVEL SWITCH NIVOPOINT



- Multi-point level switch
- For liquid
- Switch rating: 250 V AC, 3 A
- Temperature: -40 °C to 150 °C
- Pressure: max. 25 bar
- Protection: IP 65
- Approvals: ATEX II 2G EEx d IIC T3-T6

GENERAL

The NIVOPOINT MR series of magnetic float level switches are applicable for point level switching (high or low) or for alarm (overflow, empty) in liquids. In case of liquids containing metal particles protect the device by using a magnetic filter. The apparatus met requirements specified for mechanical strength with reduced impact energy (4 J; 1 kg; 0.4 m). On the basis of the above the place and way of installation should guarantee the protection of the unit against external mechanical effects during service.

PRINCIPLE

A magnetic float moving along side the protection tube tracking the level, is activating the reed relays incorporated the tube. After passing of the float, the reed relays will retain their output state. The device is capable of direct switching a load within its specification.

TECHNICAL DATA

Probe length:	0,25...3m
Material of wetted parts:	Stainless steel DIN 1.4571 (316Ti) or PP, PVDF on request
Max. process pressure:	2,5 MPa (25 bar) at 20°
Medium density:	min. 0,7g /cm ³
Max. ambient T °C class:	T6 80 °C T5 95 °C T4 85 °C T3 70 °C
Max. medium T °C class:	T6 85 °C T5 100 °C T4 135 °C T3 150 °C
Output:	1 to 5 pcs. NO or NC reed relays
Switching rate:	120 W / VA, 250 V AC, 3 A / reed relay, max. 9 A
Switch differential:	< 10 mm
Dist. between switch points:	min. 110 mm
Wire cross section:	0,5 to 2,5 mm ²
Process connection:	1" or 2" BSP/ NPT
Sealing material:	Klingerit 400
Electrical protection:	Class I
Mechanical protection:	IP 65 according to EN 60529:2001
Weight:	0.45 kg + 0.3 kg/m
Storage conditions:	-25 °C to + 60 °C, Relative humidity max. 98%
Approvals:	ATEX II 2G EEx d IIC T3-T6

ORDER CODE

NIVOPOINT MR - -

Process connection	CODE	Switch point	CODE	Length	CODE	Length	CODE
1" BSP	A	1 NO / NC	1	0 m	0	0 m	0
2" BSP	C	2 NO / NC	2	1 m	1	0,1 m	1
1" NPT	D	3 NO / NC	3	2 m	2		
2" NPT	G	4 NO / NC	4	3 m	1	0,8 m	8
		5 NO / NC	5			0,9 m	9

Specification is required as below:

Total probe length (L) =

Switching points

(Distance from process connection in mm)

L1 =

L2 =

L3 =

L4 =

L5 =

MODE

NO ☐ NC ☐

Reference for

NO / NC is:

Rising level (Empty tank)

ORDER EXAMPLE

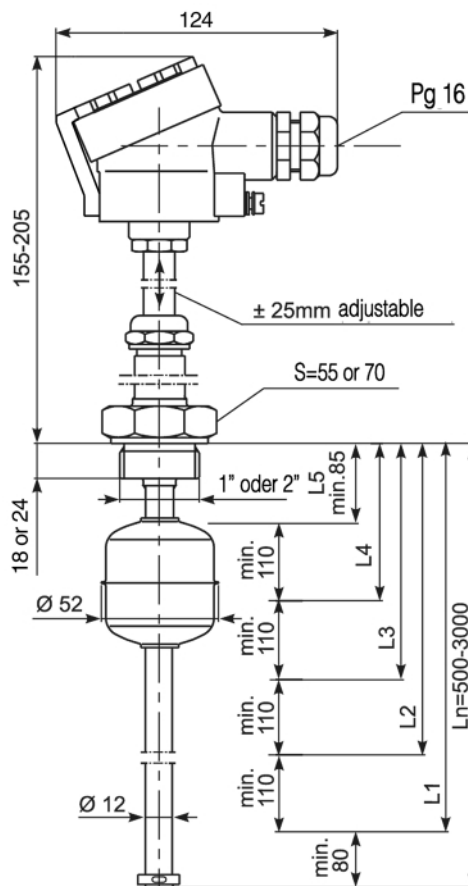
Nivopoint MRC-308-7

L1 = 650 mm

L2 = 400 mm

L3 = 130 mm

DIMENSIONS



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MAGNETIC FLOAT LEVEL
SWITCH
NIVOPOINT

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