Technical Data

Float Switch

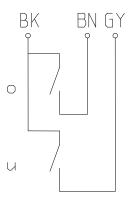


Mini-level float switches

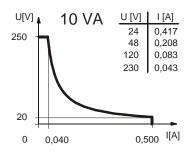
Description MSN2-MS-R1,0-2S 0078

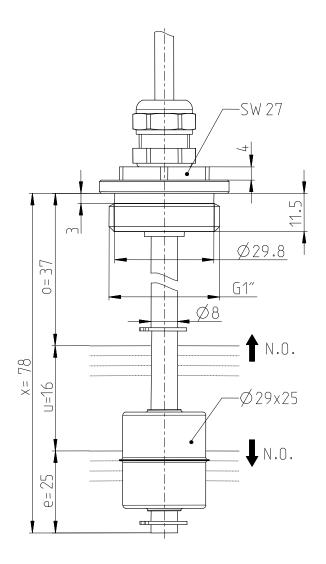
Article number 6891289002

Wiring diagram (non activated condition)



Performance diagram





Characteristic features in accordance with EN 60947-5-1

Characteristic readures in accordance with Liv 00347-3-1	
Electrical data	
max. switching voltage	250 V
max. switching current	0,5 A
max. switching capacity	10 VA _
mechanical life	10 ⁷ to 10 ⁹ switches depending on the load
Switching element	1 x normally-open contact, rising level
	1 x normally-open contact, falling level
Protection class	II (protective insulated)

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Mechanical data

Screw connection material CuZn39Pb3 (CW614N)
Switching tube material CuZn37 (CW508L)
Float material X6CrNiMoTi17-12-2 (1.4571)
-density about 0,6 g/cm³ ±10%

-depth of immersion 18 mm ±2 mm (to a fluid-density of 1 g/cm³)

Adjusting ring material CuSn8 (CW453K)
Ambient air temperature -10°C to +110°C
Liquid temperature -10°C to +110°C

 $\begin{array}{lll} \mbox{Connection} & \mbox{Cable 3x0,5 mm}^2 \ \mbox{2 m} \pm 5 \ \mbox{\%, Silicon} \\ \mbox{Protection type} & \mbox{IP 65 acc to IEC529 / EN 60529} \\ \end{array}$

Max. pressure 5 bar

EC Conformity

acc. to Directive 2006/95/EC

General details

Repeatability of switching points is ± 0.05 mm based on the same geometrical conditions as of a switch device.

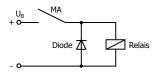
The measures of the switching points refer to a fluid-density of 1 g/cm³.

The tolerance of the switching points is $\pm 2mm$

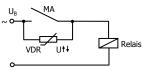
Pay attention to the contact protection, when switching inductive loads. Maximum data must not be exceeded!

Inductive loads

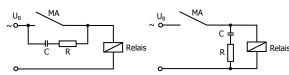
Direct current



Suppression of voltage peaks with a freewheeling diode Alternating voltage

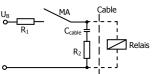


Suppression of voltage peaks with a VDR

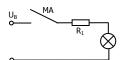


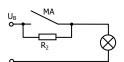
Suppression of voltage peaks with an RC element

Capacitive loads and lamp loads



Contact protection with resistors for limiting current





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