

Technical Data

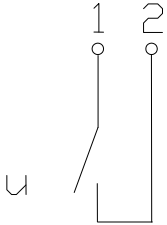
Float Switch

Mini-level float switches

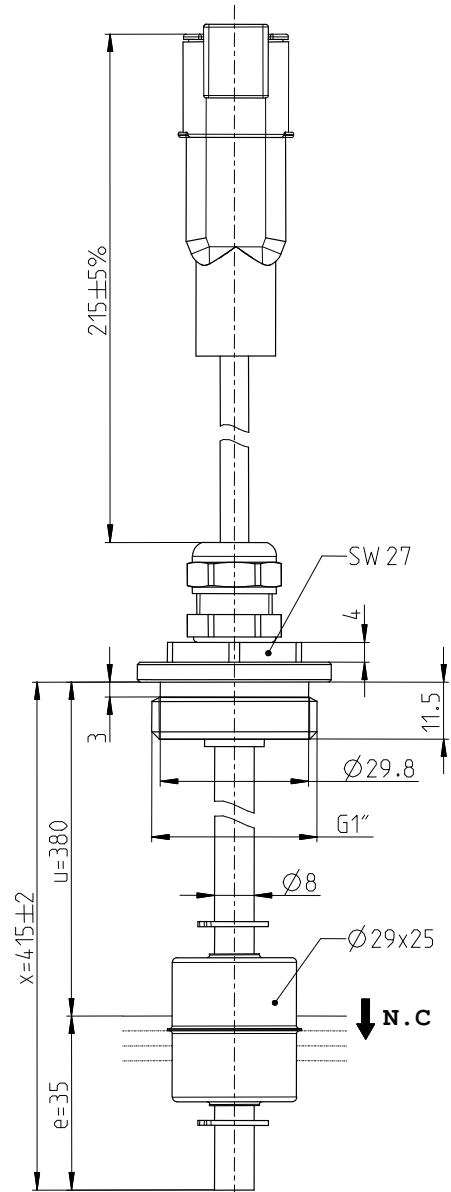
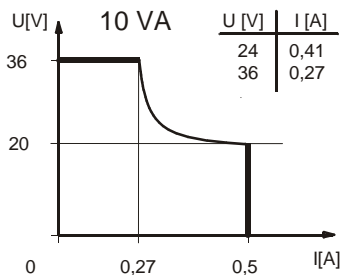
Description **MSN2-MS-R1-O 0415**

Article number **6871260012**

Wiring diagram
(non activated condition)



Performance diagram



Characteristic features in accordance with EN 60947-5-1

Electrical data

Operational voltage range	U_B	10-36 V DC
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 normally-closed contact, falling level
Protection class		By turning the float 180° the switching function change to normally open III

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Technical Data

Float Switch

Mechanical data

Flange material	CuZn39Pb3 (2.0401)
Cabel gland material	brass nickelplated
Switching tube material	CuZn37 (2.0321)
Float material	X6CrNiMoTi17-12-2 (1.4571)
-density	about 0,6 g/cm ³ ±10%
-depth of immersion	18 mm ±2 mm (to a fluid-density of 1 g/cm ³)
Adjusting ring material	CuSn8 (2.1030)
Ambient air temperature	-40°C to +100°C
Liquid temperature	-40°C to +125°C
Connection	Cable 2x0,5 mm ² (Silicone-Cable jacket) with Deutsch's DTMH Series connector
	receptacle Deutsch-Part number: DTMH04-3PA
	contact (<u>gold-plated</u>) Deutsch-Part number: 0460-202-2031
	backshell Deutsch-Part number: 1028-024-0305
	sealing plug Deutsch-Part number: 0413-204-2005
Protection type	IP 67 acc to IEC529 / EN 60529 based on the switch (without cable and connector)
Max. pressure	5 bar

General details

Repeatability of switching points is ±0,05mm 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.

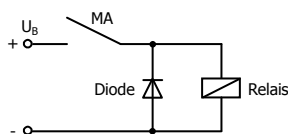
The tolerance of the switching points is ±2mm

Only for use on safe power source.

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

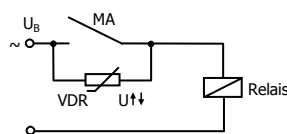
Inductive loads

Direct current

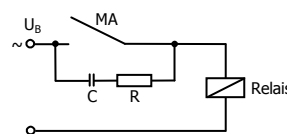


Suppression of voltage peaks with a free-wheeling diode

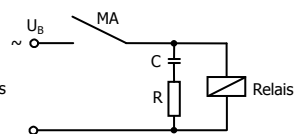
Alternating voltage



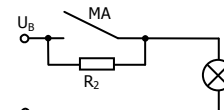
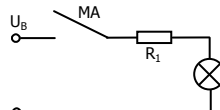
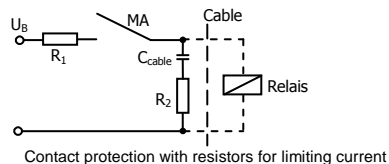
Suppression of voltage peaks with a VDR



Suppression of voltage peaks with an RC element



Capacitive loads and lamp loads



Atlas Id.-Nr.: 3222 3422 87

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