

Technical Data

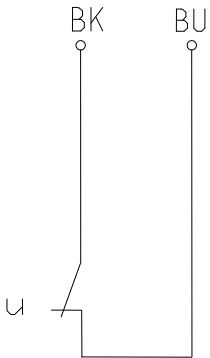
Float Switch

Mini level float switches

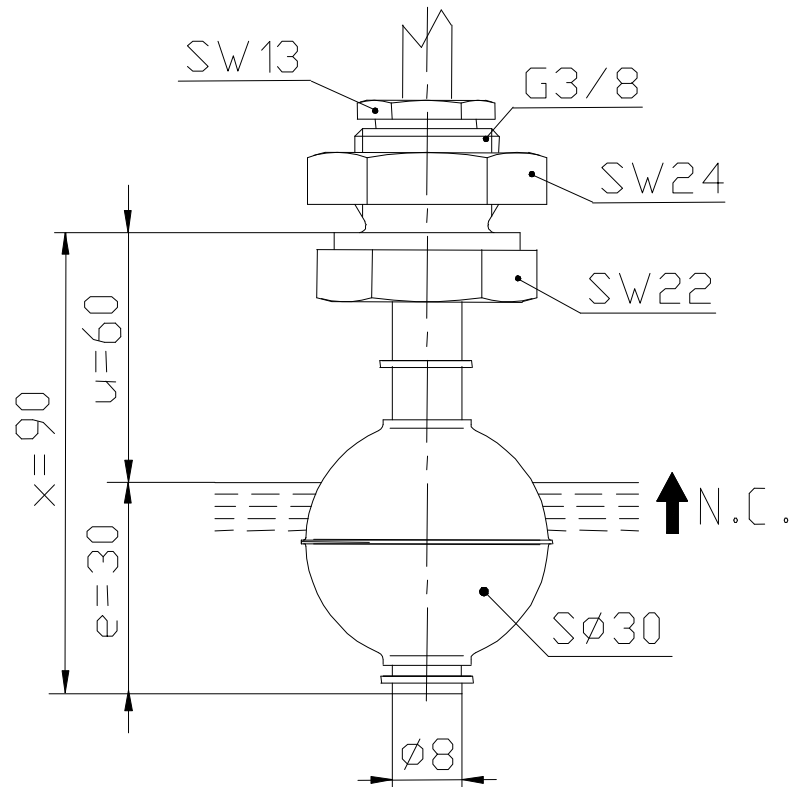
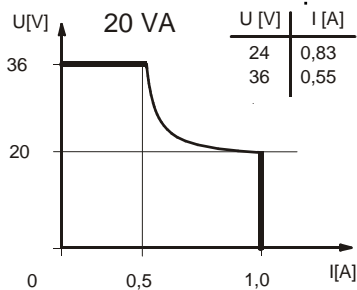
Description **MSN1-NI-R3/8-O 0090**

Article number **6891173041**

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
max. switching current		1,0 A
max. switching capacity		20 VA
mechanical life		10^7 to 10^9 switches depending on the load
Switching element		1 x normally-closed contact, rising level
Protection class		III

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Date of issue : 27.06.2013 / Page 1 of 2
Document : 6891173041_en / Last update : 1 /

Mechanical data

Screw connection material Pg7	X8CrNiS18-9 (1.4305)
Screw connection material G3/8	X6CrNiMoTi17-12-2 (1.4571)
Hexagon nut material	X8CrNiS18-9 (1.4305)
Switching tube material	X6CrNiMoTi17-12-2 (1.4571)
Float material	X6CrNiMoTi17-12-2 (1.4571)
-density	about 0,65 g/cm ³ ±10%
-depth of immersion	18 mm ±2 mm (to a fluid-density of 1 g/cm ³)
Adjusting ring material	X39CrMo17-1 (1.4122)
Gasket material	NBR
Ambient air temperature	-5°C to +100°C
Liquid temperature	-5°C to +100°C
Connection	Cable 2x0,5 mm ² x 2m ± 5 %, Silicon
Protection type	IP 65 acc to IEC529 / EN 60529
Max. pressure	5 bar

General details

Repeatability of switching points is ±0,05mm based on the same geometrical conditions as of a switch device.

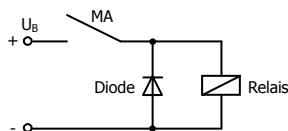
The measures of the switching points refer to a fluid-density of 1 g/cm³.

The tolerance of the switching points is ±2mm

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

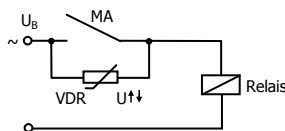
Inductive loads

Direct current

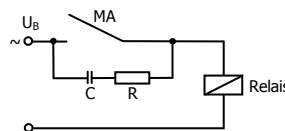


Suppression of voltage peaks with a free-wheeling diode

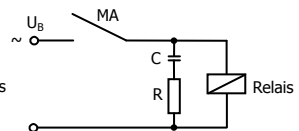
Alternating voltage



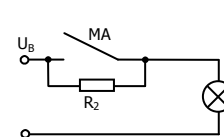
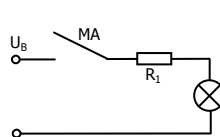
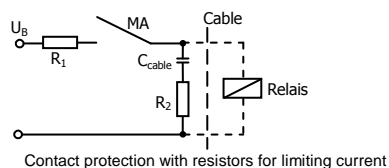
Suppression of voltage peaks with a VDR



Suppression of voltage peaks with an RC element



Capacitive loads and lamp loads



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Date of issue : 27.06.2013 / Page 2 of 2
Document : 6891173041_en / Last update : 1 /