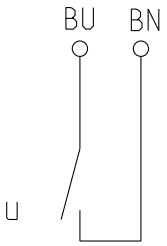
Float switch

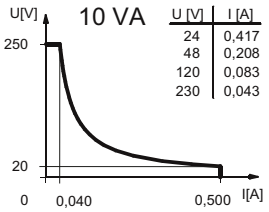
Series Miniature-Float switch

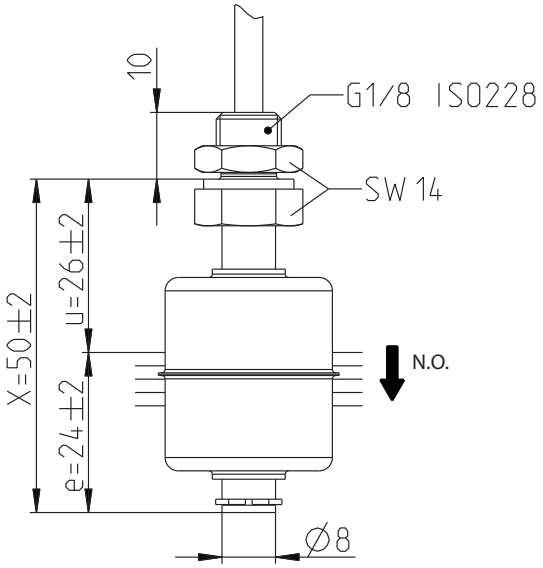
Description **MSN2-NI-R1/8-S 0050**	Article number **6891181002**

Wiring diagram
(non-actuated state)



Performance diagram





Electrical data		
Rated voltage	U_r	250 V
max. switching current		0,5 A
max. switching capacity		10 VA
Rated insulation voltage	U_i	300 V AC
Rated impulse withstand voltage	U_{imp}	4 kV AC
Overvoltage category		II
mechanical life		10^7 to 10^9 switches depending on the load
Switching element		1 N.O., falling level If the float be turned by 180 °, it will be change the switching function N.O. in N.C.
Protection class		II (totally insulated)

Mechanical data	
Bolting material	X5CrNiMo17-12-2 (1.4401)
Hexagonal nut material	X8CrNiS18-9 (1.4305)
Switching tube material	X6CrNiMoTi17-12-2 (1.4571)
Float material - density - depth of immersion	X6CrNiMoTi17-12-2 (1.4571) about 0,65 g/cm³ ±10 % 18 mm ± 2 mm (to a fluid-density of 1 g/cm³)
Grip screw material	X35CrMo17-1 (1.4122)
Ambient air temperature	-5 °C to +60 °C
Liquid temperature	-5 °C to +60 °C
Connection	Cable 2 x 0,34 mm² x 5 m ± 5 %, PVC
Protection type	IP 65 acc to IEC529 / EN 60529
Max. pressure	10 bar

Standards
DIN EN 60947-5-1

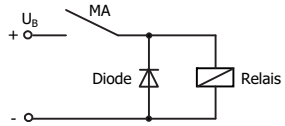
EU Conformity
acc. to directive 2014/35/EU

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 ±2 mm
Pay attention to the contact protection, when switching inductive or capacitive loads. Maximum data must not be exceeded!

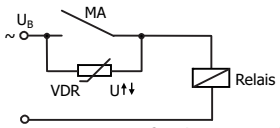
Inductive loads

Direct current

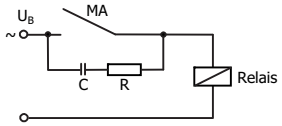


Suppression of voltage peaks with a free-wheeling diode

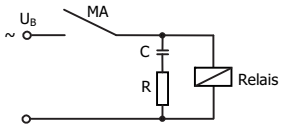
Alternating voltage



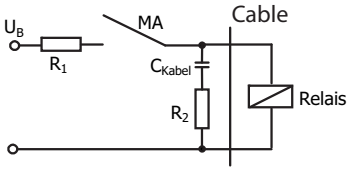
Suppression of voltage peaks with a VDR

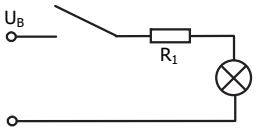


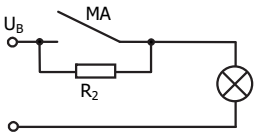
Suppression of voltage peaks with an RC element



Capacitive loads and lamp loads







Contact protection with resistors for limiting current