

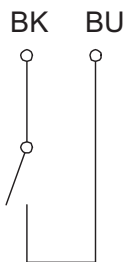
Float switch

Series Miniature-Float switch

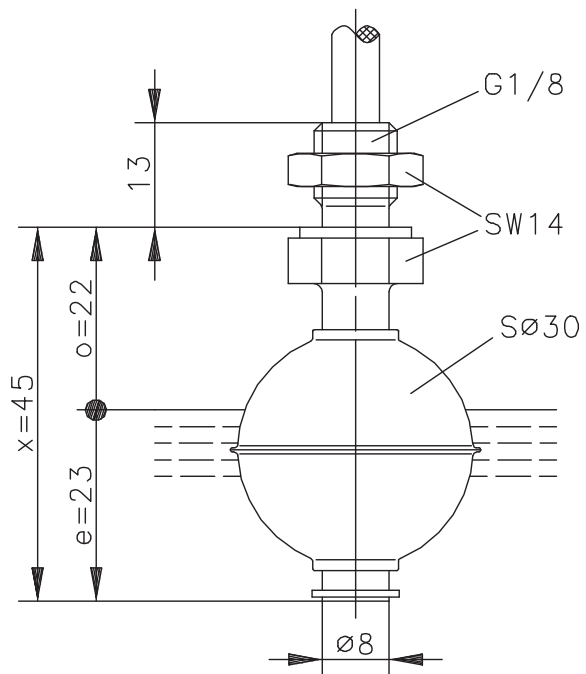
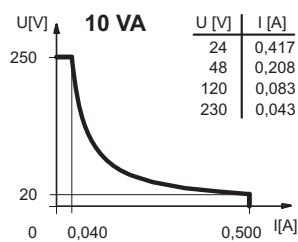
Description **MSN1-NI-R1/8-S 0045**

Article number **6891171015**

Wiring diagram



Performance diagram



Electrical data		
Operational voltage range	U_B	10-36 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 N.O., falling level
Protection class		III (extra-low voltage)

Mechanical data	
Terminal box material	X8CrNiS18-9 (1.4305)
Hexagonal nut material	X8CrNiS18-9 (1.4305)
Float material	X6CrNiMoTi17-12-2 (1.4571)
- density	about 0,67 g/cm ³ ±10 %
- depth of immersion	19,5 mm ± 2 mm (to a fluid-density of 1 g/cm ³)
Grip screw material	X35CrMo17 (1.4122)
Ambient air temperature	-30 °C to +150 °C
Connection	Cable 2 x 0,5 mm ² x 0,5 m, silicone
Protection type	IP 20 acc. to IEC529 / EN 60529
Max. pressure	10 bar

General details
<p>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!</p>

Notes
If the float be turned by 180°, it will be change the switching function N.O. in N.C

Inductive loads
<div style="display: flex; justify-content: space-between;"> <div style="width: 24%;"> <p>Direct current</p> <p>Suppression of voltage peaks with a free-wheeling diode</p> </div> <div style="width: 24%;"> <p>Alternating voltage</p> <p>Suppression of voltage peaks with a VDR</p> </div> <div style="width: 24%;"> <p>Suppression of voltage peaks with an RC element</p> </div> <div style="width: 24%;"> </div> </div>

Capacitive loads and lamp loads
<p>Contact protection with resistors for limiting current</p>