

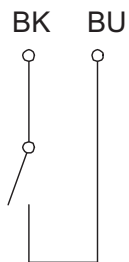
## Float switch

### Series Miniature-Float switch

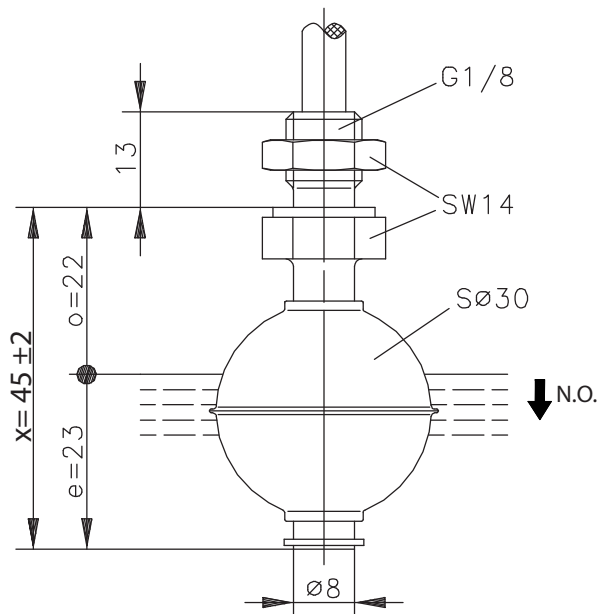
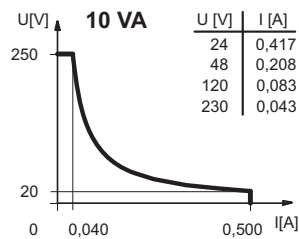
Description **MSN1-NI-R1/8-S 0045**

Article number **6891171020**

#### Wiring diagram



#### 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
Switching element		1 x N.O., falling level
Protection class		II (totally insulated)

Mechanical data	
Terminal box material	X6CrNiMoTi17-12-2 (1.4571)
Hexagonal nut material	X6CrNiMoTi17-12-2 (1.4571)
Float material	X6CrNiMoTi17-12-2 (1.4571)
- density	about 0,67 g/cm <sup>3</sup> ±10 %
- depth of immersion	19,5 mm ± 2 mm ( to a fluid-density of 1 g/cm <sup>3</sup> )
Grip screw material	X12CrNi17-7 (1.4310)
Ambient air temperature	-5 °C to +150 °C
Connection	Cable 2 x 0,5 mm <sup>2</sup> x 2 m, silicone
Protection type	IP 44 acc. to IEC529 / EN 60529
Max. pressure	10 bar

Standards
DIN EN 60947-5-1

EU Conformity
acc. to directive 2014/35/EU (Low-Voltage-Directive)

General details
The measures of the switching points refer to a fluid-density of 1 g/cm <sup>3</sup> . 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
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Direct current</p> <p>Suppression of voltage peaks with a free-wheeling diode</p> </div> <div style="text-align: center;"> <p>Alternating voltage</p> <p>Suppression of voltage peaks with a VDR</p> </div> <div style="text-align: center;"> <p>Suppression of voltage peaks with an RC element</p> </div> </div>

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