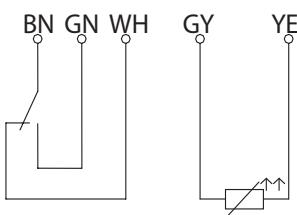
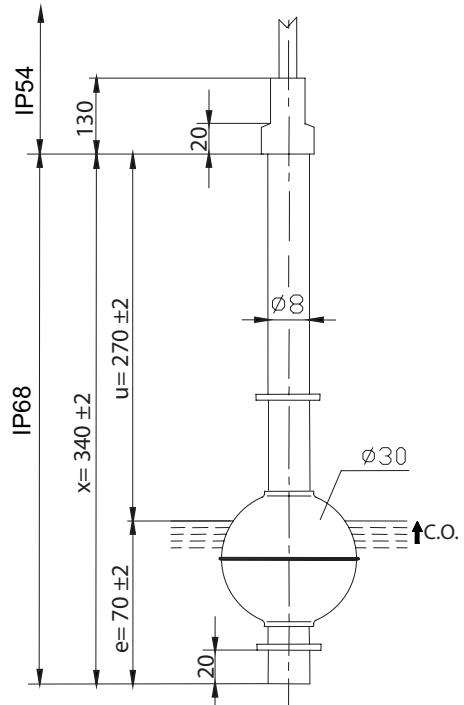
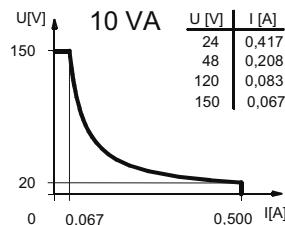


## Float switch

### Series Miniature-Float switch

Description **MSN1-NI-OV-U-PT100 0340**Article number **6891170004**

**Wiring diagram**  
(non-actuated state)

**Performance diagram****Electrical data****Switching contact**

max. switching voltage	150 V
max. switching current	0,5 A
max. switching capacity	10 VA
mechanical life	10 <sup>7</sup> to 10 <sup>9</sup> switches
Switching element	1 C.O., rising level

**Temperature sensor**

Type	PT100
measuring current	commend 1,0 mA
max. Strom	7 mA
Temperature coefficient	$\alpha = 3,85 \times 10^{-3} \text{ }^{\circ}\text{C}^{-1}$ (between 0 °C and 100° C)
Tolerance	Temperature validity range Class B : -20 °C ... +150 °C
Long-term stability	max. R <sub>o</sub> -drift 0,05 % / year
Protection class	II (totally insulated)

**Mechanical data**

Switching tube material	X6CrNiMoTi17-12-2 (1.4571)
Float material	X6CrNiMoTi17-12-2 (1.4571)
- density	about 0,65 g/cm <sup>3</sup> ±10 %
- depth of immersion	18 mm ± 2 mm (to a fluid-density of 1 g/cm <sup>3</sup> )
Grip screw material	X39CrMo17-1 (1.4122)
Ambient air temperature	-5 °C to +80 °C
Liquid temperature	-5 °C to +80 °C
Connection	Cable 5 x 0,25 mm <sup>2</sup> x 1 m ± 5 %, PUR
Protection type	IP 68 / IP 54 acc. to IEC529 / EN 60529
Max. pressure	10 bar

**Standards**

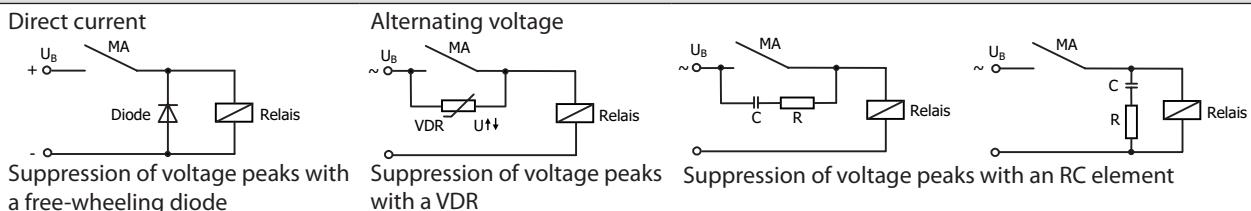
DIN EN 60947-5-1

**EU Conformity**

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

**General details**

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/cm<sup>3</sup>.  
 Operate only at safe voltage sources!  
 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!  
 For measurements with resistance thermometers kontruktiv or by measurement-related influences can affect the measuring result.

**Inductive loads****Capacitive loads and lamp loads**