

# Float switch

## Series Miniature-Float switch

Description **MSN1-NI-OV-20 0340**

Article number **6895100004**

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

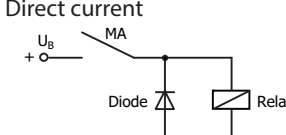
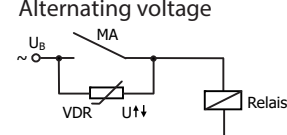
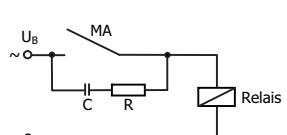
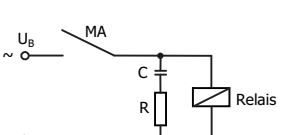
**Performance diagram**

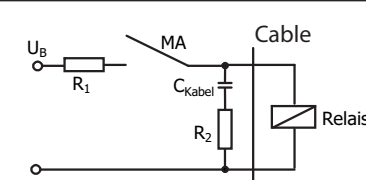
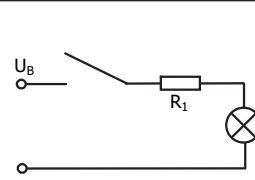
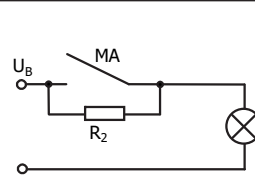
Electrical data		
Rated voltage	$U_r$	36 V
max. switching current		1,0 A
max. switching capacity		20 VA
Rated insulation voltage	$U_i$	50 V AC
Overvoltage category		II
mechanical life		$10^7$ to $10^9$ switches depending on the load
Switching element		1 N.C., rising level 1 N.C., falling level

Mechanical data	
Switching tube material	X6CrNiMoTi17-12-2 (1.4571) electrolytic polished (Ra < 0,8)
Ambient air temperature	-5 °C to +80 °C
Liquid temperature	-5 °C to +80 °C
Connection	Cable 3 x 0,34 mm <sup>2</sup> x 3 m ± 5 %, PUR
Protection type	IP 65 acc. to IEC529 / EN 60529
Max. pressure	5 bar

Standards
DIN EN 60947-5-1

General details
<p>Repeatability of switching points is <math>\pm 0,05</math> 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>.                      Only use in circuits with protective separation and in range with local potential equalization.                      The tolerance of the switching points is <math>\pm 2</math> mm                      Pay attention to the contact protection, when switching inductive or capacitive loads. Maximum data must not be exceeded!</p>

Inductive loads			
<p><b>Direct current</b></p>  <p>Suppression of voltage peaks with a free-wheeling diode</p>	<p><b>Alternating voltage</b></p>  <p>Suppression of voltage peaks with a VDR</p>	 <p>Suppression of voltage peaks with an RC element</p>	

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