

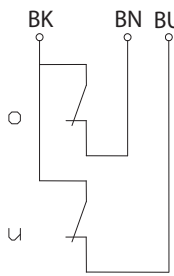
# Float switch

## Series Miniature-Float switch

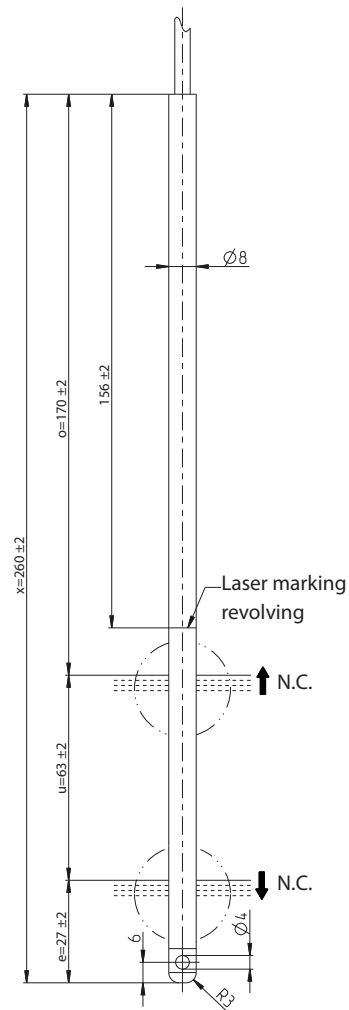
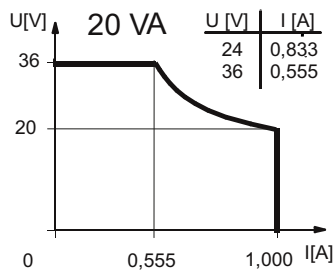
Description **MSN1-NI-OV-20 0260**

Article number **689510003**

**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

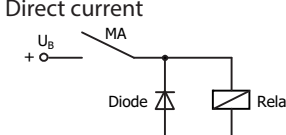
Mechanical data	
Switching tube material	X6CrNiMoTi17-12-2 (1.4571) electrolytic polished (Ra < 0,8)
Ambient air temperature	-5 °C to +80 °C
Liquid temperature	-5 °C to +80 °C
Connection	Cable 3 x 0,34 mm <sup>2</sup> x 3,5 m ± 5 %, PUR
Protection type	IP 65 acc. to IEC529 / EN 60529
Max. pressure	5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

Standards
DIN EN 60947-5-1

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> . Only use in circuits with protective separation and in range with local potential equalization. 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!

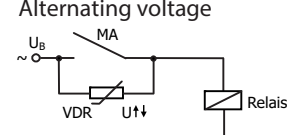
**Inductive loads**

Direct current

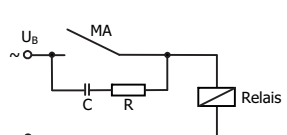


Suppression of voltage peaks with a free-wheeling diode

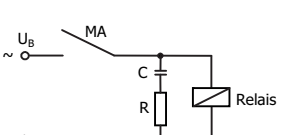
Alternating voltage



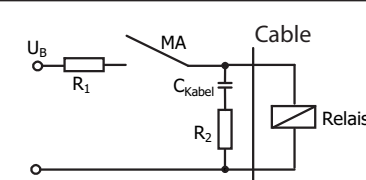
Suppression of voltage peaks with a VDR



Suppression of voltage peaks with an RC element



**Capacitive loads and lamp loads**



Contact protection with resistors for limiting current

