

Float switch

Series Miniature-Float switch

Description **MSN2-NI-R1,0-OOS 0830**

Article number **6891188002**

Wiring diagram
(non-actuated state)

Performance diagram

U [V]	I [A]
24	0,417
48	0,208
120	0,083
230	0,043

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}	2,5 kV AC
Overvoltage category		II
Switching element		2 N.C., falling level 1 N.O., rising level
Protection class		I

Mechanical data	
Terminal box material	Aluminium coated RAL 7001
Screw connection material	X6CrNiMoTi17-12-2 (1.4571)
Screw connection material R1"	CuZn39Pb3 (nickel-plated CuNi8 acc. to DIN 50968)
Switching tube material	X6CrNiMoTi17-12-2 (1.4571)
Float material	X6CrNiMoTi17-12-2 (1.4571)
- density	about 0,6 g/cm ³ ±10 %
- depth of immersion	18 mm ± 2 mm (to a fluid-density of 1 g/cm ³)
Grip screw material	X39CrMo17 (1.4122)
Gasket material	NBR and Klingsil C-4400
Ambient air temperature	-5 °C to +110 °C
Liquid temperature	-5 °C to +110 °C
Connection	Connecting block inside the terminal box
Protection type	IP 65 acc to IEC529 / EN 60529
Max. pressure	5 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 ³ . 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