

Float switch

Series Miniature-Float switch

Description **MSK4-NI-R1/8-S 0090**

Article number **6891241009**

Wiring diagram
(non-actuated state)

Performance diagram

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

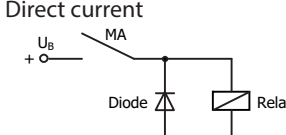
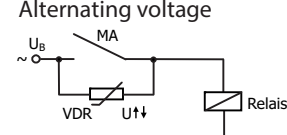
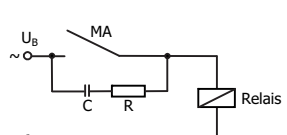
Electrical data	
max. switching voltage	250 V
max. switching current	0,5 A
max. switching capacity	10 VA
Rated insulation voltage	U_i 300 V AC
Rated impulse withstand voltage	U_{imp} 4 kV AC
Overvoltage category	II
mechanical life	10^7 to 10^9 switches depending on the load
Switching element	1 N.O., falling level
Protection class	II (totally insulated)

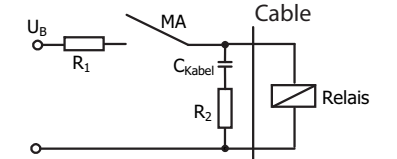
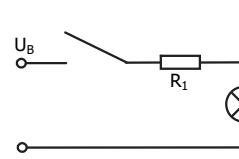
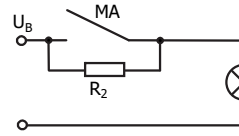
Mechanical data	
Bolting material	X5CrNiMo17-12-2 (1.4401)
Hexagon nut material	X8CrNiS18-9 (1.4305)
Switching tube material	X6CrNiMoTi17-12-2 (1.4571)
Float material	NBR
- density	about 0,6 g/cm ³ ±10 %
- depth of immersion	15 mm ± 2 mm (to a fluid-density of 1 g/cm ³)
Grip screw material	X39CrMo17-1 (1.4122)
Ambient air temperature	-5 °C to +60 °C
Liquid temperature	-5 °C to +60 °C
Connection	Cable 2 x 0,34 mm ² x 1 m ± 5 %, PVC
Protection type	IP 65 acc to IEC529 / EN 60529
Max. pressure	25 bar

Standards
DIN EN 60947-5-1

EU Conformity
acc. to directive 2014/35/EU

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
<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>