

# Float switch

## Series Miniature-Float switch

Description **MSK2-NI-R3/8ST-3S 1293**

Article number **6891123004**

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

**Performance diagram**

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

M12x1  
G3/8  
SW24  
gasket  
SW22  
N.O.  
N.O.  
N.O.  
ø8  
ø25x20  
e=23 ±2  
u=780 ±2  
m=450 ±2  
o=40 ±2  
c.a.30  
x=1293 ±2

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
Switching element	o= N.O., rising level m= N.O., falling level u=N.O., falling level
Protection class	II (totally insulated)

Mechanical data	
Bolting material	X6CrNiMoTi-17-12-2 (1.4571)
Hexagon nut material	X6CrNiMoTi-17-12-2 (1.4571)
Switching tube material	X6CrNiMoTi-17-12-2 (1.4571)
Float material	PVC
- density	about 0,7 g/cm <sup>3</sup> ±10 %
- depth of immersion	17 mm ± 2 mm ( to a fluid-density of 1 g/cm <sup>3</sup> )
Grip screw material	X35CrMo17 (1.4122)
Gasket material	NBR
Ambient air temperature	-5 °C to +60 °C
Liquid temperature	-5 °C to +60 °C
Connection	M12 x 1 connector 4-pole A-coded
Protection type	IP 65 acc to IEC529 / EN 60529 (only in fully locked position with it's plugs)
Max. pressure	10 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 <sup>3</sup> . The tolerance of the switching points is ±2 mm Maximum data must not be exceeded! Pay attention to the contact protection, when switching inductive or capacitive loads.

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>		