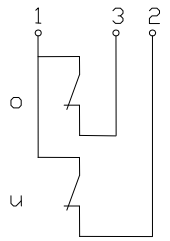
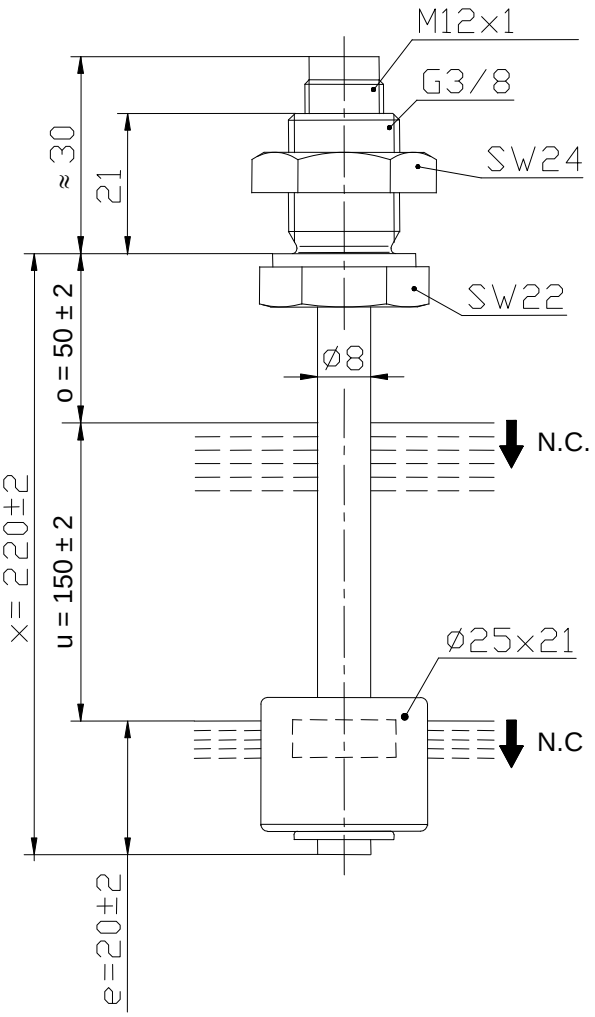
Technical Data
Float Switch

Mini-level float switches

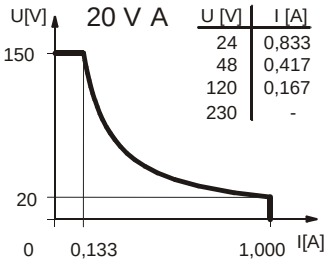
Description **MSK1-NI-R3/8ST-2O 0220** Article number **6895117002**

Wiring diagram
(non activated condition)





Performance diagram



U [V]	I [A]
24	0,833
48	0,417
120	0,167
230	-

Characteristic features in accordance with EN 60947-5-1

Electrical data	
max. switching voltage	150 V
max. switching current	0,5 A
max. switching capacity	20 VA
mechanical life	10^7 to 10^9 switches depending on the load
Switching element	2 x NC, falling level
Protection class	III

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Mechanical data

Hexagon nut material	X10CrNiS18-9 (1.4305)
Screw connection material	X6CrNiMoTi17-12-2 (1.4571)
Switching tube material	X6CrNiMoTi17-12-2 (1.4571)
Float material	PP
-density	about 0,55 g/cm³ ±10%
-depth of immersion	12 mm ±2 mm (to a fluid-density of 1 g/cm³)
Adjusting ring material	X35CrMo17 (1.4122)
Ambient air temperature	-5°C to +60°C
Liquid temperature	-5°C to +60°C
Connection	Plug connection (M12x1, 4 pole, DC)
Protection type	IP 65 acc to IEC529 / EN 60529 (only in fully locked position with it's plugs)
Max. pressure	5 bar

EU Conformity

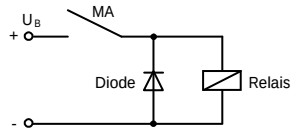
acc. to Directive 2004/108/EG

General details

Repeatabaility of switching points is ±0,05mm 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^3.
The tolerance of the switching points is ±2mm
Use only with safe voltage sources.
Maximum data must not be exceeded!
Pay attention to the contact protection, when switching inductive or capacitive loads!

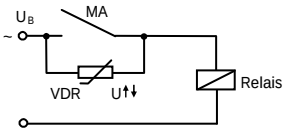
Inductive loads

Direct current

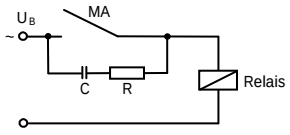


Suppression of voltage peaks with a free-wheeling diode

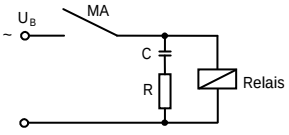
Alternating voltage



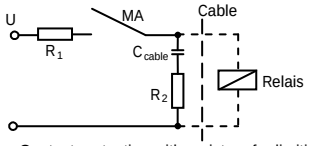
Suppression of voltage peaks with a VDR



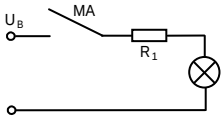
Suppression of voltage peaks with an RC element

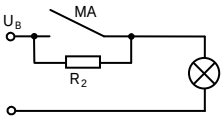


Capacitive loads and lamp loads



Contact protection with resistors for limiting current





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