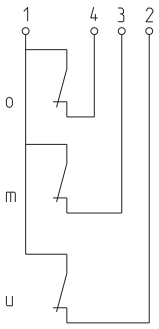
Float switch

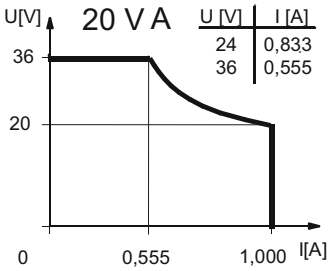
Series Miniature-Float switch

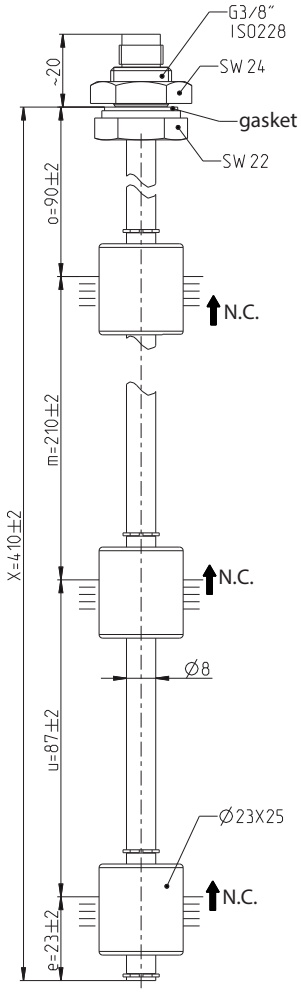
Description **MSK4-NI-R3/8ST-3O 0410** Article number **6895147002**

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
Rated impulse withstand voltage	U_{imp}	500 V AC
Overvoltage category		II
mechanical life		10^7 to 10^9 switches depending on the load
Switching element		3 N.C., rising level

Mechanical data	
Hexagon nut material	X10CrNiS 18-9 (1.4305)
Bolting material	X6CrNiMoTi17-12-2 (1.4571)
Switching tube material	X6CrNiMoTi17-12-2 (1.4571)
Float material - density - depth of immersion	NBR about 0,7 g/cm³ ±10 % 16 mm ± 2 mm (to a fluid-density of 1 g/cm³)
Grip screw material	X35CrMo17-12-2 (1.4122)
Ambient air temperature	-5 °C to +60 °C
Liquid temperature	-5 °C to +60 °C
Connection	Connector (M12x1, 4-pole)
Protection type	IP 65 acc to IEC529 / EN 60529 (only in fully locked position with it's plugs)
Max. pressure	10 bar

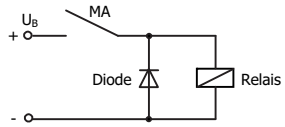
Standards	
	DIN EN 60947-5-1

General details

The measures of the switching points refer to a fluid-density of 1 g/cm³.
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!

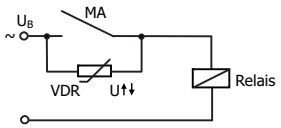
Inductive loads

Direct current

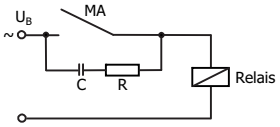


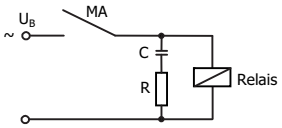
Suppression of voltage peaks with a free-wheeling diode

Alternating voltage



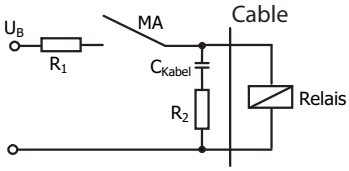
Suppression of voltage peaks with a VDR

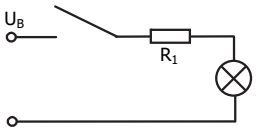


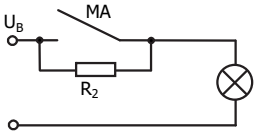


Suppression of voltage peaks with an RC element

Capacitive loads and lamp loads







Contact protection with resistors for limiting current