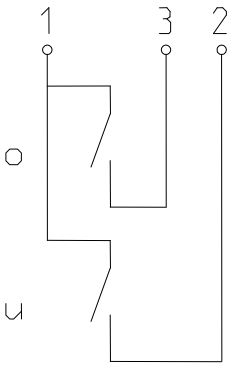
Technical Data
Float Switch

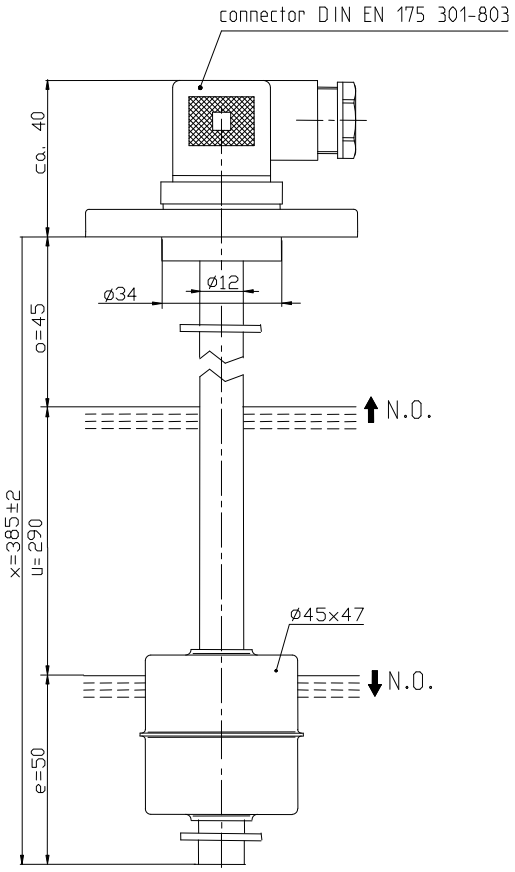
Standard float switches

Description **MAP-722 PTS 0385**

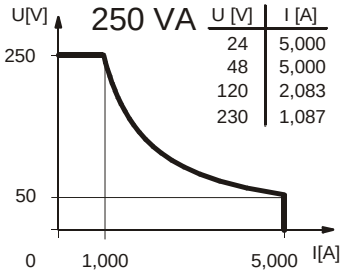
Article number **6820200006**

Wiring diagram

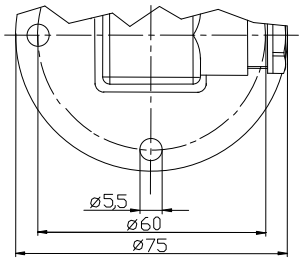




Performance diagram



U [V]	I [A]
24	5,000
48	5,000
120	2,083
230	1,087



Characteristic features in accordance with EN 60947-5-1

Electrical data	
max. switching voltage	250 V
max. switching current	5,0 A
max. switching capacity	250 VA
mechanical life	10^7 to 10^9 switches depending on the load
Switching element	1 x normally-open contact , rising level 1 x normally-open contact , falling level
Protection class	II (protective insulation)

Technical Data
Float Switch

Mechanical data

Flange material	CuZn39Pb3 (CW614N)
Switching tube material	CuZn37 (CW508L)
Float material	X6CrNiMoTi17-12-2 (1.4571)
-density	about 0,7 g/cm³ ±10%
-depth of immersion	32 mm ±2 mm (to a fluid-density of 1 g/cm³)
Adjusting ring material	CuSn8 (CW453K)
Gasket material	NBR
Ambient air temperature	-5°C to +100°C
Liquid temperature	-5°C to +120°C
Connection	Connector acc. to DIN EN 175 301-803
Protection type	IP 65 acc to IEC529 / EN 60529 (only with female socket)
Max. pressure	15 bar

EC Conformity

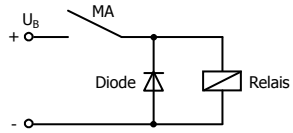
acc. to Directive 2006/95/EG

General details

Repeatability 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
Pay attention to the contact protection, when switching inductive or capacitive loads. Maximum data must not be exceeded!

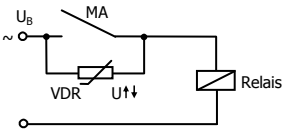
Inductive loads

Direct current

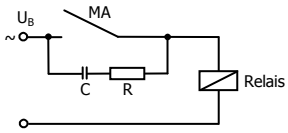


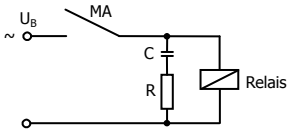
Suppression of voltage peaks with a free-wheeling diode

Alternating voltage



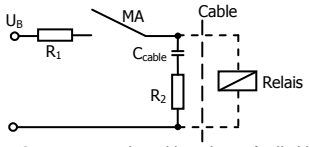
Suppression of voltage peaks with a VDR



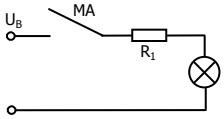


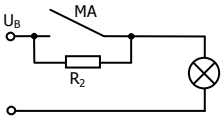
Suppression of voltage peaks with an RC element

Capacitive loads and lamp loads



Contact protection with resistors for limiting current





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