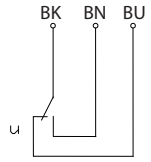
Float switch

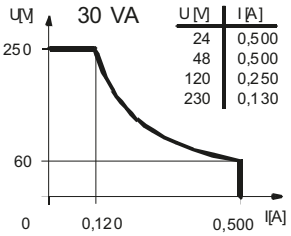
Series Standard-Float switch

Description **MAA-713 KVS 0409** Article number **6815101135**

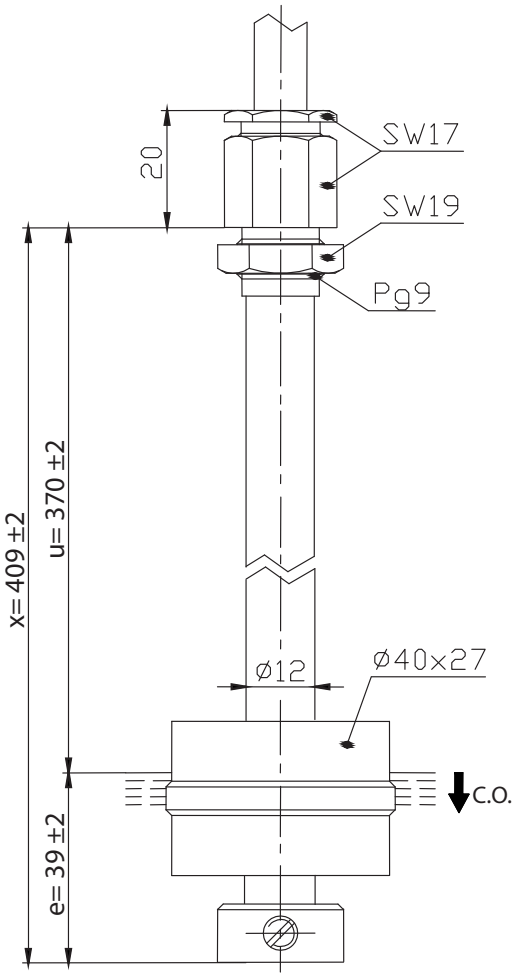
Wiring diagram
(non-actuated state)



Performance diagram



U [V]	I [A]
24	0,500
48	0,500
120	0,250
230	0,130



Electrical data		
Rated voltage	U_r	250 V
max. switching current		0,5 A
max. switching capacity		30 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 C.O., falling level
Protection class		I

Mechanical data	
Bolting material	X6CrNiMoTi17-12-2 (1.4571)
Hexagonal nut material	X6CrNiMoTi17-12-2 (1.4571)
Switching tube material	X6CrNiMoTi17-12-2 (1.4571)
Float material - density - depth of immersion	POM about 0,7 g/cm³ ±10 % 18 mm ± 2 mm (to a fluid-density of 1 g/cm³)
Adjusting ring material	X6CrNiMoTi17-12-2 (1.4571)
Gasket material	NBR
Ambient air temperature	-5 °C to +60 °C
Liquid temperature	-5 °C to +60 °C
Connection	Cable 3 x 0,5 mm² x 4 m ± 5 %, PVC
Protection type	IP 65 acc to IEC529 / EN 60529
Max. pressure	5 bar

Standards	
	DIN EN 60947-5-1

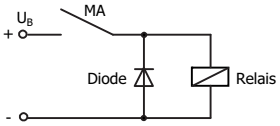
EU Conformity	
	acc. to directive 2014/35/EU

General details

Repeatability of switching points is ±0,05 mm 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/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!

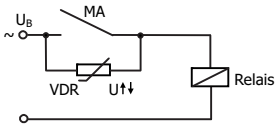
Inductive loads

Direct current

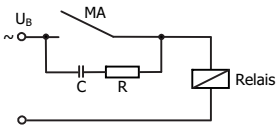


Suppression of voltage peaks with a free-wheeling diode

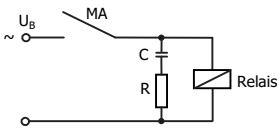
Alternating voltage



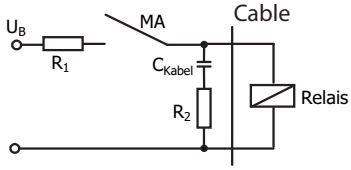
Suppression of voltage peaks with a VDR

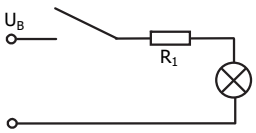


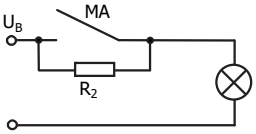
Suppression of voltage peaks with an RC element



Capacitive loads and lamp loads







Contact protection with resistors for limiting current