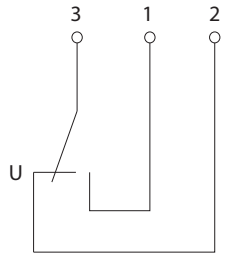
Float switch

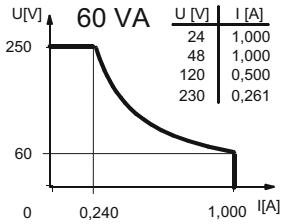
Series Standard-Float switch

Description **MAE-713 LWFL95/0260** Article number **6816190013**

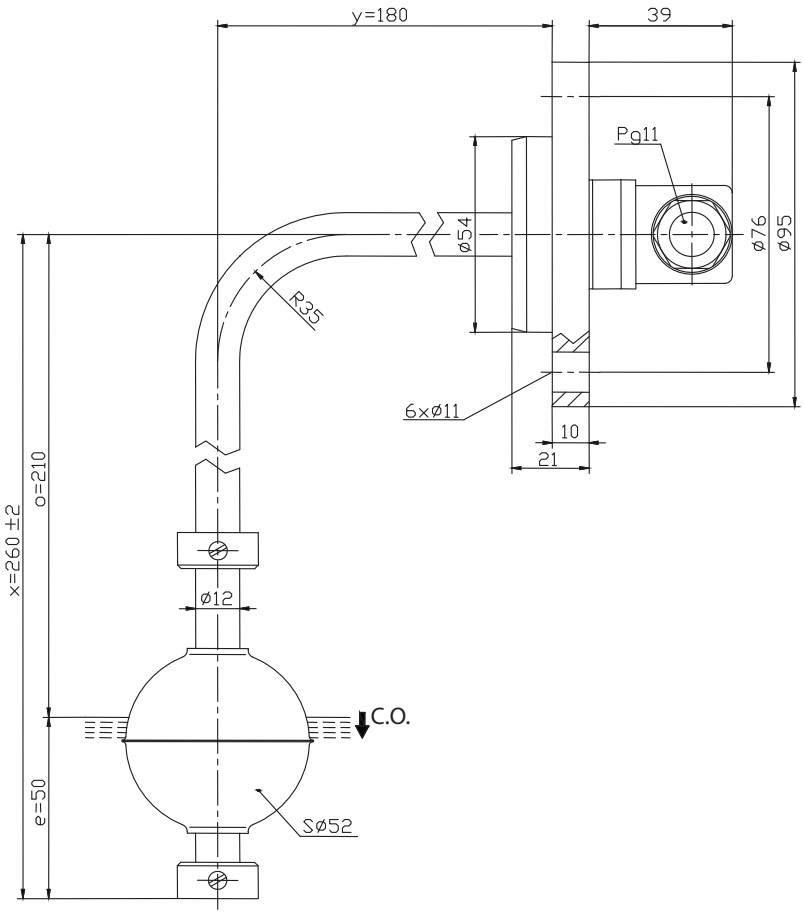
Wiring diagram



Performance diagram



U [V]	I [A]
24	1,000
48	1,000
120	0,500
230	0,261



Characteristic features in accordance with EN 60947-5-1

Electrical data	
max. switching voltage	250 V
max. switching current	1,0 A
max. switching capacity	60 VA
min. switching capacity	3 VA
mechanical life	10^7 to 10^9 switches depending on the load
Switching element	1 x change-over contact , falling level
Protection class	I

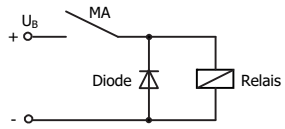
Mechanical data	
Flange material	X5CrNiMo17-12-2 (1.4401)
Switching tube material	X6CrNiMoTi17-12-2 (1.4571)
Float material - density - depth of immersion	X6CrNiMoTi17-12-2 (1.4571) about 0,65 g/cm³ ±10 % 32 mm ± 2 mm (to a fluid-density of 1 g/cm³)
Adjusting ring material	X6CrNiMoTi17-12-2 (1.4571)
Gasket material	NBR
Ambient air temperature	-5 °C to +110 °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 in fully locked position with it's plugs)
Max. pressure	25 bar

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!

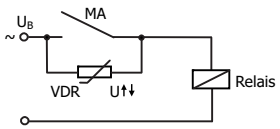
Inductive loads

Direct current

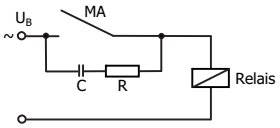


Suppression of voltage peaks with a free-wheeling diode

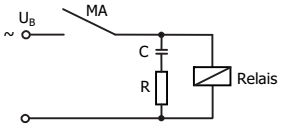
Alternating voltage



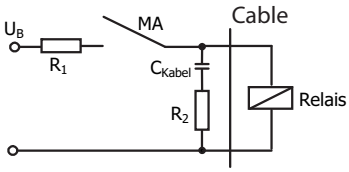
Suppression of voltage peaks with a VDR

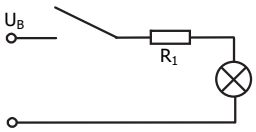


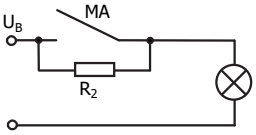
Suppression of voltage peaks with an RC element



Capacitive loads and lamp loads







Contact protection with resistors for limiting current