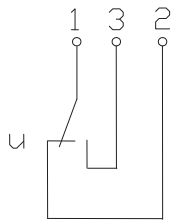
Float switch

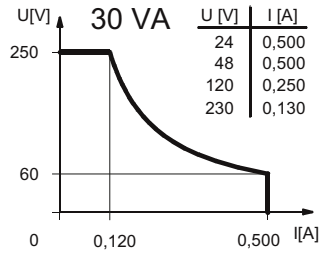
Series Standard-Float switch

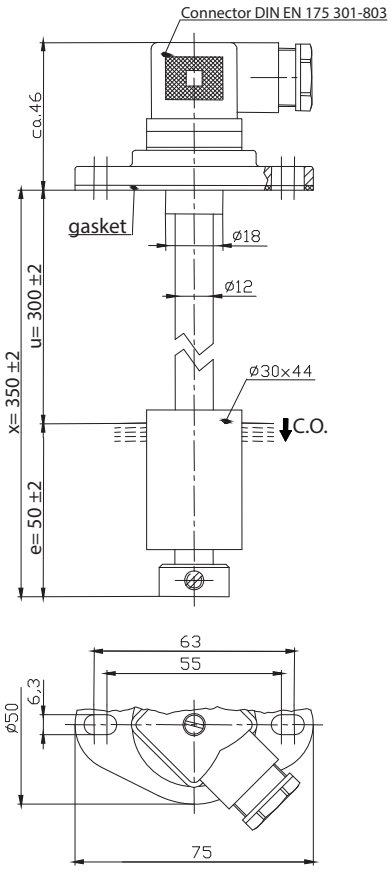
Description **MAT-713 KTOS 0350**	Article number **6815166007**

Wiring diagram
(non-actuated state)



Performance diagram





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
Switching element		1 C.O., falling level
Protection class		II (totally insulated)

Mechanical data	
Flange material	PA6.6
Switching tube material	X6CrNiMoTi17-12-2 (1.4571)
Float material - density - depth of immersion	PP about 0,6 g/cm³ ±10 % 30 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	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	5 bar

Standards
DIN EN 60947-5-1

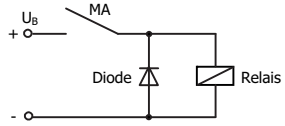
EU Conformity
acc. to directive 2014/35/EU

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!

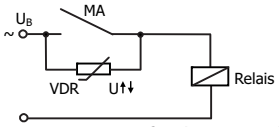
Inductive loads

Direct current

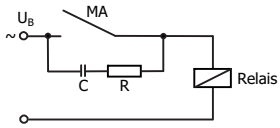


Suppression of voltage peaks with a free-wheeling diode

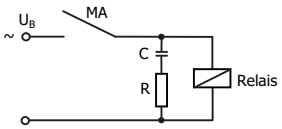
Alternating voltage



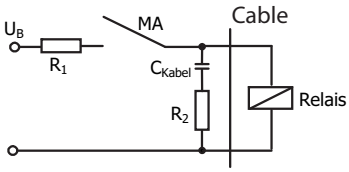
Suppression of voltage peaks with a VDR

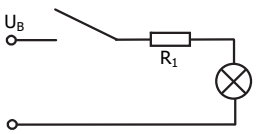


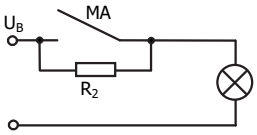
Suppression of voltage peaks with an RC element



Capacitive loads and lamp loads







Contact protection with resistors for limiting current