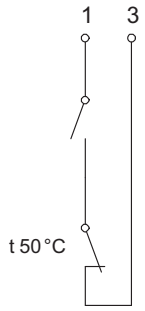
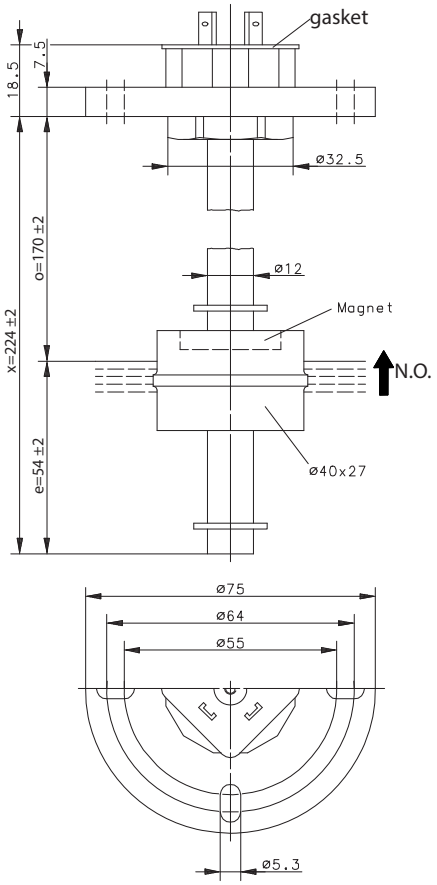
Float switch

Series Standard-Float switch

Description **MAM-712 PTT 0224** Article number **6814210006**

Wiring diagram
(non-actuated state)





Electrical data		
Rated voltage	U_r	24 V DC
max. switching current		5,0 A
min. switching current		50 mA
max. switching capacity		120 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 Restrictions on temperature switch at 9.6 A 20 circuits (otherwise max.200)
Switching element		1 x N.O., rising level 1 x temperature switch ca. 50 °C ±10 K, N.C.; Hysterese ≈ 30 K ... 70 K

Mechanical data	
Flange material	PC
Housing material	CuZn37 (2.0321)
Switching tube material	CuZn37 (2.0321)
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)
Grip screw material	CuSn8 (2.1030)
Gasket material	NBR
Ambient air temperature	-5 °C to +60 °C
Liquid temperature	-5 °C to +60 °C
Connection	Plug connector 3-pole 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	10 bar

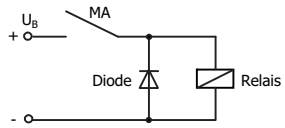
Standards	
	DIN EN 50178

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!
ATTENTION: The installation of the temperature switch in the switching tube delayed response results ompared to the medium temperature.

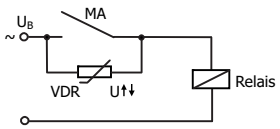
Inductive loads

Direct current

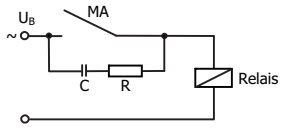


Suppression of voltage peaks with a free-wheeling diode

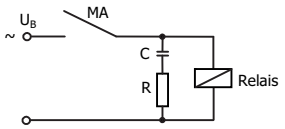
Alternating voltage



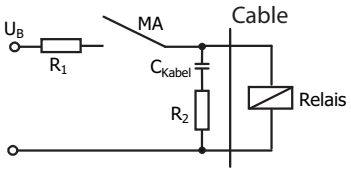
Suppression of voltage peaks with a VDR

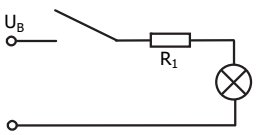


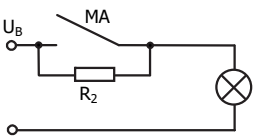
Suppression of voltage peaks with an RC element



Capacitive loads and lamp loads







Contact protection with resistors for limiting current