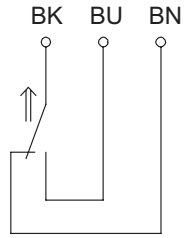
Float switch

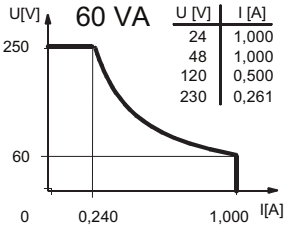
Series Standard-Float switch

Description **MAN-713 LVS 0415**	Article number **6816121022**

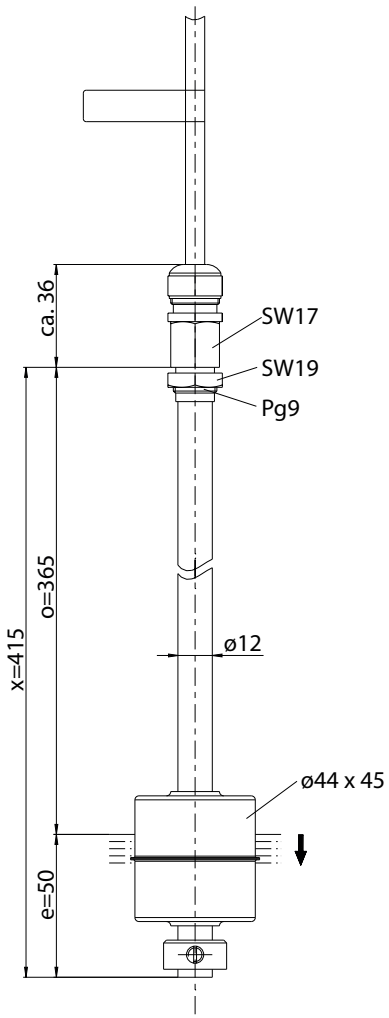
Wiring diagram
(Matching the drawn state)



Performance diagram



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



Electrical data		
Rated voltage	U_r	250 V
max. switching current		1,0 A
max. switching capacity		60 VA
Utilization category		AC-21A and DC-21A according to DIN VDE 0660 T107 (IEC 947-5-1 / EN 60947-3-1)
mechanical life		10^7 to 10^9 switching operations depending on the load to be switched
Switching element		1 x C.O., falling level

Mechanical data	
Bolting material	X6CrNiMoTi17-12-2 (1.4571)
Hexagon nut material	X6CrNiMoTi17-12-2 (1.4571)
Switching tube material	X6CrNiMoTi17-12-2 (1.4571)
Float material - density - depth of immersion	X6CrNiMoTi17-12-2 (1.4571) about 0,7 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 +120 °C
Liquid temperature	-5 °C to +120 °C
Connection	Cable 3 x 0,75 mm² x 2 m ± 5 %, silicone
Protection type	IP 65 acc to IEC529 / EN 60529
Max. pressure	15 bar

Standards	
	DIN EN 60947-5-1

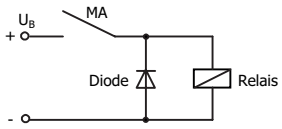
EU Conformity	
	acc. to directive 2014/35/EU (Low-Voltage-Directive)

General details

Reproducibility of the switching points with the same geometric ratios ± 0.05mm, referred to a switching 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!

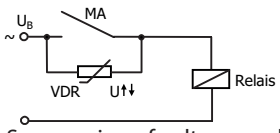
Inductive loads

Direct current

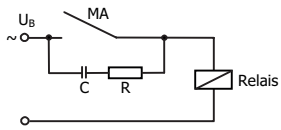


Suppression of voltage peaks with a free-wheeling diode

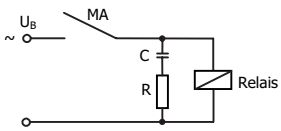
Alternating voltage



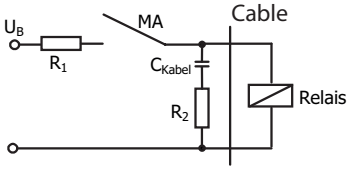
Suppression of voltage peaks with a VDR

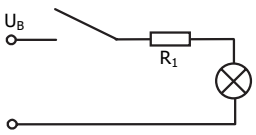


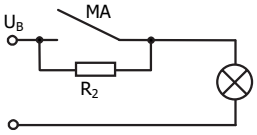
Suppression of voltage peaks with an RC element



Capacitive loads and lamp loads







Contact protection with resistors for limiting current