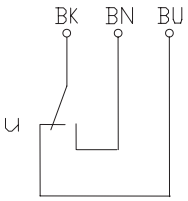
# Float switch

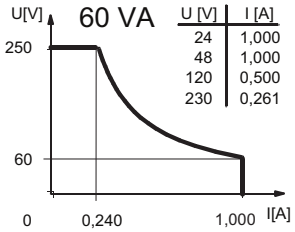
## Series Standard-Float switch

| Description **MAE-713 LHS 0125** | Article number **6816191003** |
|---|---|

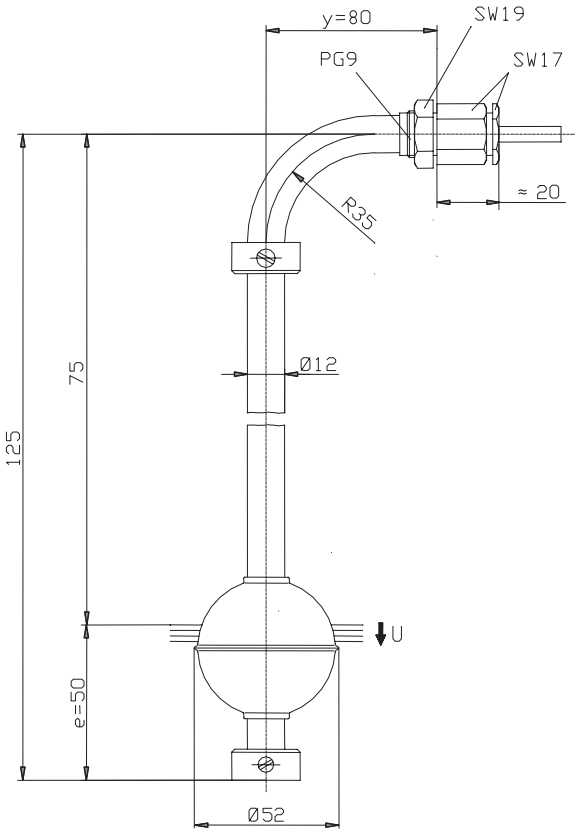
**Wiring diagram**
(non-actuated state)




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

| 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<br>- density<br>- depth of immersion | X6CrNiMoTi17-12-2 (1.4571)<br>about 0,65 g/cm³ ±10 %<br>32 mm ± 2 mm ( to a fluid-density of 1 g/cm³ ) |
| Gasket material | NBR |
| Adjusting ring material | X6CrNiMoTi17-12-2 (1.4571) |
| 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 | 10 bar |

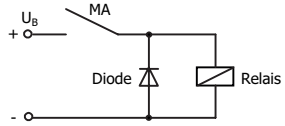
| EU Conformity | |
|---|---|
| | acc. to directive 2014/35/EU (Low-Voltage-Directive) |

## 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!

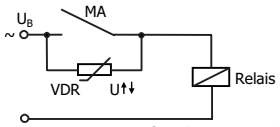
## Inductive loads

Direct current

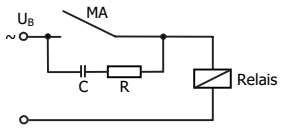



Suppression of voltage peaks with a free-wheeling diode

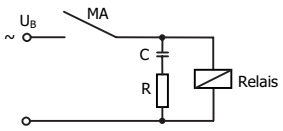
Alternating voltage



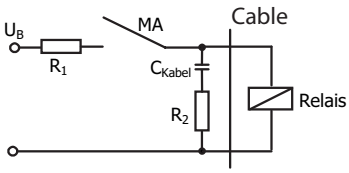

Suppression of voltage peaks with a VDR

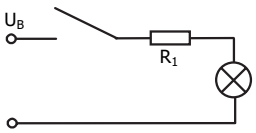


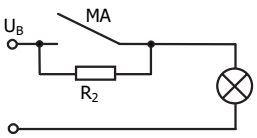

Suppression of voltage peaks with an RC element




## Capacitive loads and lamp loads




Contact protection with resistors for limiting current