

Float switch

Series Standard-Float switch

Description **MAP-711 LAS 0250**

Article number **6816222009**

Wiring diagram
(non-actuated state)

Performance diagram

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

60 VA

| Electrical data | | |
|---------------------------------|-----------|---|
| Rated voltage | U_r | 250 V |
| max. switching current | | 1,0 A |
| max. switching capacity | | 60 VA |
| min. switching capacity | | 3 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 depending on the load |
| Switching element | | 1 N.C., falling level |
| Protection class | | II (totally insulated) |

| Mechanical data | |
|-------------------------|--|
| Bolting material G3/8 | CuZn35Ni2 (CW720R) |
| Jackscrew material | CuZn37 (CW508L) nickel-plated |
| Hexagon nut material | CuZn39Pb3 (CW614N) |
| Switching tube material | CuZn37 (CW508L) |
| Float material | X6CrNiMoTi17-12-2 (1.4571) |
| - density | about 0,7 g/cm ³ ±10 % |
| - depth of immersion | 32 mm ± 2 mm (to a fluid-density of 1 g/cm ³) |
| Grip screw material | CuSn8 (CW453K) |
| Gasket material | NBR |
| Ambient air temperature | -5 °C to +120 °C |
| Liquid temperature | -5 °C to +120 °C |
| Connection | Cable 2 x 0,75 mm ² x 1 m ± 5 %, Silicone |
| Protection type | IP 65 acc to IEC529 / EN 60529 |
| Max. pressure | 10 bar |

| Standards |
|------------------|
| DIN EN 60947-5-1 |

| EU Conformity |
|------------------------------|
| acc. to directive 2014/35/EU |

| General details |
|---|
| <p>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!</p> |

| Inductive loads |
|---|
| <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Direct current</p> <p>Suppression of voltage peaks with a free-wheeling diode</p> </div> <div style="text-align: center;"> <p>Alternating voltage</p> <p>Suppression of voltage peaks with a VDR</p> </div> <div style="text-align: center;"> <p>Suppression of voltage peaks with an RC element</p> </div> </div> |

| Capacitive loads and lamp loads |
|---|
| <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Contact protection with resistors for limiting current</p> </div> <div style="text-align: center;"> </div> <div style="text-align: center;"> </div> </div> |