

## Float switch

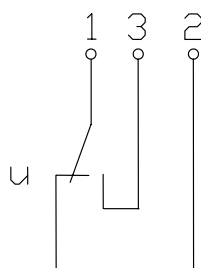
### Series Standard-Float switch

Description **MAN-713 LTOS 0219**

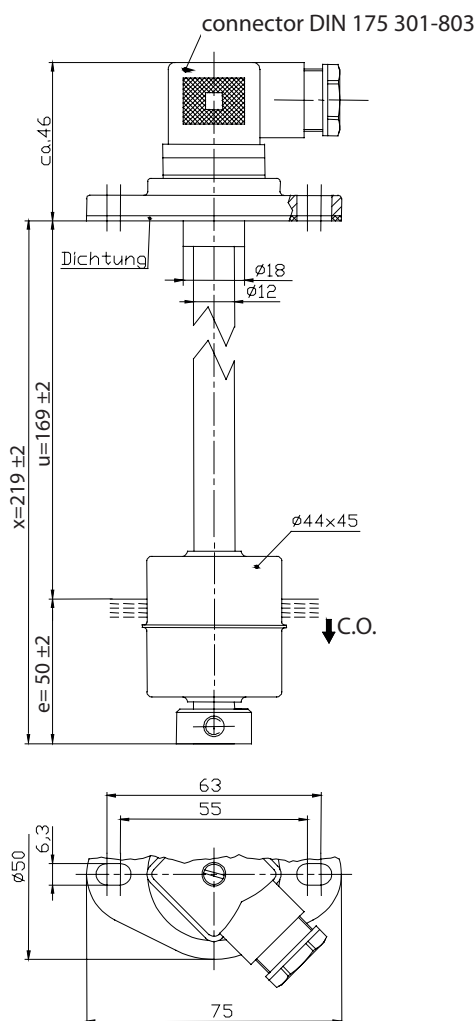
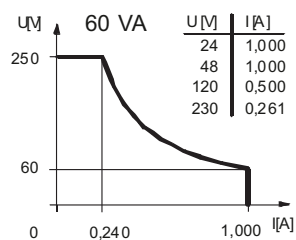
Article number **6816100068**

#### Wiring diagram

(non-actuated state)



#### Performance diagram



#### Electrical data

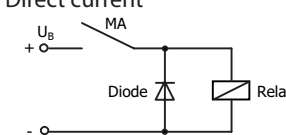
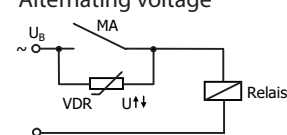
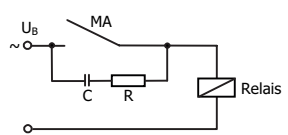
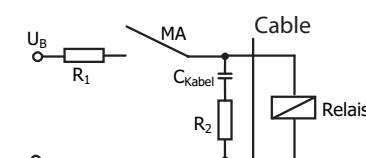
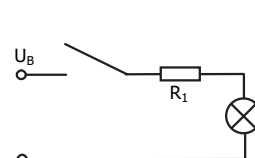
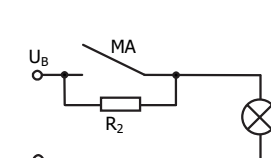
|                                 |           |                        |
|---------------------------------|-----------|------------------------|
| Rated voltage                   | $U_r$     | 250 V                  |
| max. switching current          |           | 1,0 A                  |
| max. switching 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                     |
| Switching element               |           | 1 C.O., falling level  |
| Protection class                |           | II (totally insulated) |

| Mechanical data         |                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------|
| Flange material         | PA 6.6                                                                            |
| Switching tube material | X6CrNiMoTi17-12-2 (1.4571)                                                        |
| Float material          | X6CrNiMoTi17-12-2 (1.4571)                                                        |
| - density               | about 0,68 g/cm <sup>3</sup> ±10 %                                                |
| - depth of immersion    | 32 mm ± 2 mm ( to a fluid-density of 1 g/cm <sup>3</sup> )                        |
| End stop 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 similar to DIN EN 175 301-803                                           |
| Protection type         | IP 65 acc to IEC529 / EN 60529<br>(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 (Low-Voltage-Directive) |

| General details                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>The measures of the switching points refer to a fluid-density of 1 g/cm<sup>3</sup>.</p> <p>The tolerance of the switching points is ±2 mm</p> <p>Pay attention to the contact protection, when switching inductive or capacitive loads. Maximum data must not be exceeded!</p> |

| Inductive loads                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div> <p><b>Direct current</b></p>  <p>Suppression of voltage peaks with a free-wheeling diode</p> </div> <div> <p><b>Alternating voltage</b></p>  <p>Suppression of voltage peaks with a VDR</p> </div> <div>  <p>Suppression of voltage peaks with an RC element</p> </div> |
| Capacitive loads and lamp loads                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <div>  <p>Contact protection with resistors for limiting current</p> </div> <div>  </div> <div>  </div>                                                                                                                                                                      |