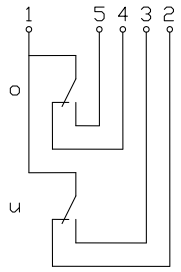
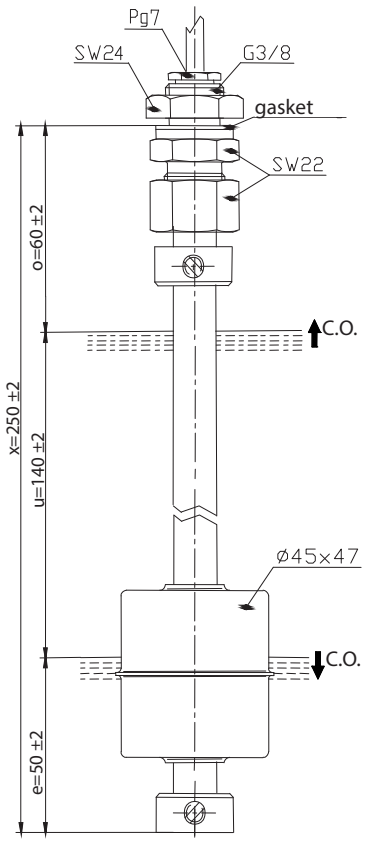
# Float switch

Series Standard-Float switch

| Description **MAN-723 KAS 0250** | Article number **6825122025** |
|---|---|

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




| **Electrical data** | | |
|---|---|---|
| Rated voltage | $U_r$ | 48 V |
| max. switching current | | 0,5 A |
| max. switching capacity | | 30 VA |
| Rated insulation voltage | $U_i$ | 50 V AC |
| Bemessungsstoßspannungsfestigkeit | $U_{imp}$ | 500 V AC |
| Overvoltage category | | II |
| mechanical life | | $10^7$ to $10^9$ switches depending on the load |
| Switching element | | 2 C.O., falling level |

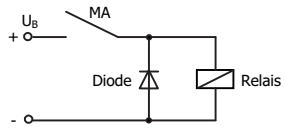
| Mechanical data | |
|---|---|
| Compression bolting material Pg7 | X8CrNiSi18-9 (1.4305) |
| Bolting material G3/8 | X6CrNiMoTi17-12-2 (1.4571) |
| Hexagon nut material | X8CrNiSi18-9 (1.4305) |
| Switching tube material | X6CrNiMoTi17-12-2 (1.4571) |
| Float material<br>- density<br>- depth of immersion | X6CrNiMoTi17-12-2 (1.4571)<br>about 0,7 g/cm³ ±10 %<br>32 mm ± 2 mm ( to a fluid-density of 1 g/cm³ ) |
| Gasket material | NBR |
| Grip ring material | X6CrNiMoTi17-12-2 (1.4571) |
| Ambient air temperature | -5 °C to +60 °C |
| Liquid temperature | -5 °C to +80 °C |
| Connection | Cable 5 x 0,5 mm² x 1 m ± 5 %, PVC |
| Protection type | IP 65 acc to IEC529 / EN 60529 |
| 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.<br>The measures of the switching points refer to a fluid-density of 1 g/cm³.<br>The tolerance of the switching points is ±2 mm<br>Pay attention to the contact protection, when switching inductive or capacitive loads. Maximum data must not be exceeded! |

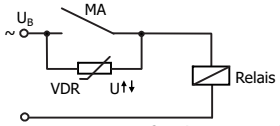
## Inductive loads

Direct current

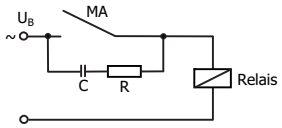



Suppression of voltage peaks with a free-wheeling diode

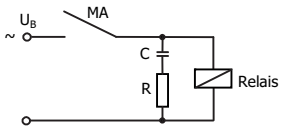
Alternating voltage



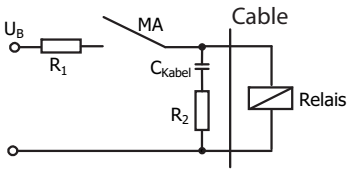

Suppression of voltage peaks with a VDR

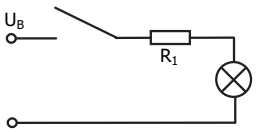


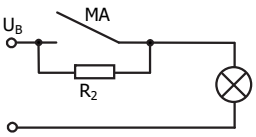

Suppression of voltage peaks with an RC element




## Capacitive loads and lamp loads




Contact protection with resistors for limiting current