

## Float switch

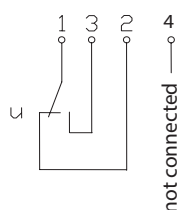
### Series Miniature-Float switch

Description **MSK3-MS-R3/8ST-U 0045**

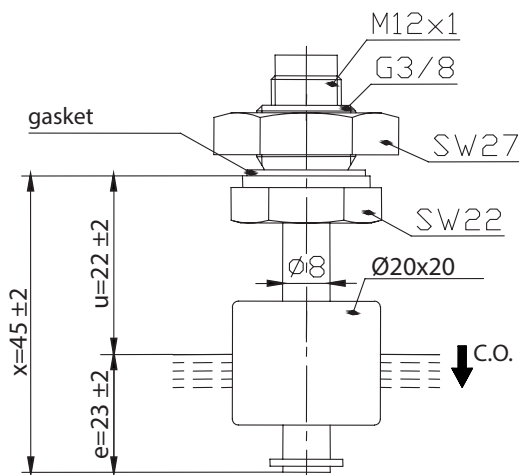
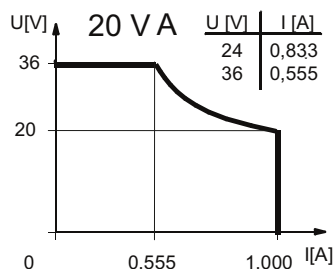
Article number **6895237002**

#### Wiring diagram

(non-actuated state)



#### Performance diagram



#### Characteristic features in accordance with EN 60947-5-1

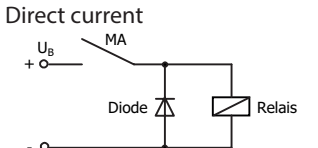
Electrical data		
Operational voltage range	$U_B$	10 - 36 V
max. switching current		1,0 A
max. switching capacity		20 VA
mechanical life		$10^7$ to $10^9$ switches depending on the load
Switching element		1 C.O., falling level
Protection class		III

<b>Mechanical data</b>	
Bolting material	CuZn39Pb3 (CW614N)
Hexagon nut material	CuZn39Pb3 (CW614N)
Switching tube material	CuZn37 (CW508L)
Float material	NBR
- density	about 0,75 g/cm <sup>3</sup> ±10 %
- depth of immersion	15 mm ± 2 mm ( to a fluid-density of 1 g/cm <sup>3</sup> )
Grip screw material	CuSn8 (CW453K)
Gasket material	NBR
Ambient air temperature	-5 °C to +60 °C
Liquid temperature	-5 °C to +60 °C
Connection	Plug-connector M12 x 1 (1, 2 and 3 connected)
Protection type	IP 65 acc to IEC529 / EN 60529
Max. pressure	5 bar

**General details**

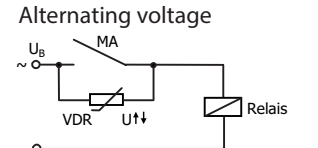
Repeatability of switching points is ±0,05 mm based on the same geometrical conditions as of a switch device.  
 The measures of the switching points refer to a fluid-density of 1 g/cm<sup>3</sup>.  
 The tolerance of the switching points is ±2 mm  
 Pay attention to the contact protection, when switching inductive or capacitive loads. Maximum data must not be exceeded!

**Inductive loads**



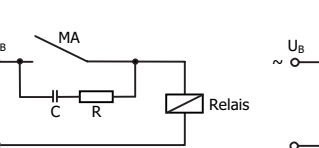
Direct current

Suppression of voltage peaks with a free-wheeling diode



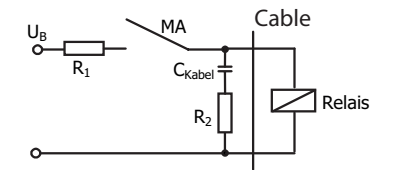
Alternating voltage

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

