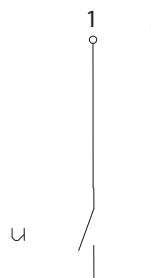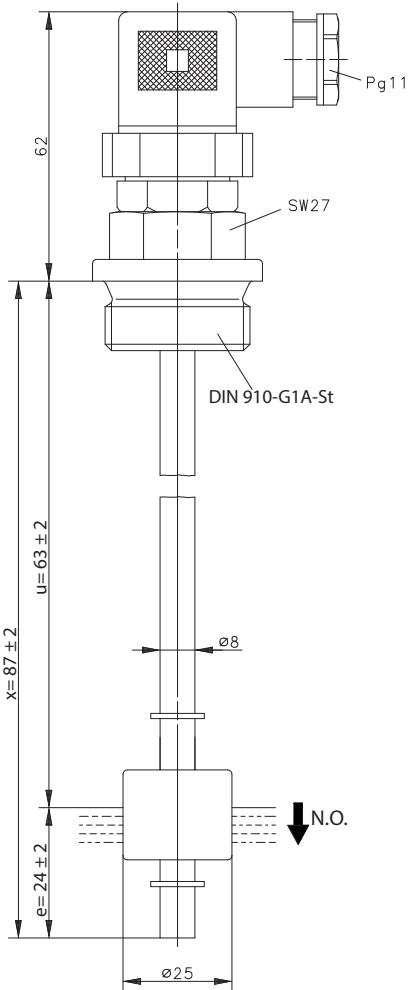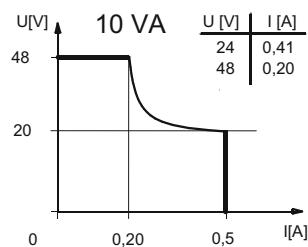**BERNSTEIN**

Float switch
Series Miniature-Float switch

Description **MSK1-MS-R1-S 0087**	Article number **6891210002**

Wiring diagram
(non-actuated state)

1   2

Performance diagram

10 VA

U [V]	I [A]
24	0,41
48	0,20

Pg 11

SW 27

DIN 910-G1A-St

62

u = 63 ± 2

x = 87 ± 2

e = 24 ± 2

ø8

ø25

N.O.

Electrical data		
Rated voltage	U_r	48 V
max. switching current		0,5 A
max. switching capacity		10 VA
Rated insulation voltage	U_i	50 V AC
Rated impulse withstand voltage	U_{imp}	500 V AC
Overvoltage category		II
mechanical life		10^7 to 10^9 switches
Switching element		1 N.O., falling level
Protection class		II (totally insulated)

Technical modifications and errors excepted.
The technical datasheet corresponds to the technical state as of 2016-06-10 and will not be removed in case of changes.

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Mechanical data

Bolting material	S235JR (1.0037), galvanized
Switching tube material	CuZn37 (CW508L)

Float material
        - density
        - depth of immersion
	PP
	about 0,55 g/cm^3 ±10 %
	12 mm ± 2 mm (to a fluid-density of 1 g/cm^3)

Grip screw material	CuSn8 (CW453K)
Ambient air temperature	-5 °C to +60 °C
Liquid temperature	-5 °C to +60 °C
Connection	Plug connector acc. to DIN EN 175 301-803
Protection type	IP 65 acc to IEC529 / EN 60529 (only in fully locked position with it's plugs)
Max. pressure	5 bar

Standards

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

General details

The measures of the switching points refer to a fluid-density of 1 g/cm^3.
The tolerance of the switching points is ±2 mm
Only use in circuits with protective separation and in range with local potential equalization. Pay attention to the contact protection, when switching inductive or capacitive loads. Maximum data must not be exceeded!
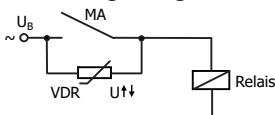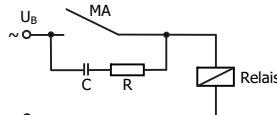
Inductive loads

Direct current

Alternating voltage

U_B MA
+
Diode Relais
-
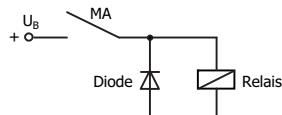
Suppression of voltage peaks with a free-wheeling diode

U_B MA
~
VDR U Relais

Suppression of voltage peaks with a VDR

U_B MA
~
C R Relais

U_B MA
~
C
R Relais

Suppression of voltage peaks with an RC element

Capacitive loads and lamp loads

U_B MA
Cable
R_1
C_{Kabel}
R_2 Relais

U_B MA
R_1

U_B MA
R_2
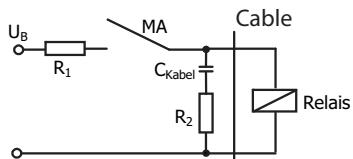
Contact protection with resistors for limiting current

6891210002 / 0274-16