

ACCESSORIES

Surge dampers



0551894

Bracket



0574772

Switching capacity – Microswitch with gold plated contacts

Current type	Load type	Switching voltage US max. 24 V	Switching 48 V
a.c.	ohmic	10	10
a.c.	inductive, $\cos \varphi \approx 0,7$	4	2,5
a.c.	inductive, spark extinction with RC element	6	4
d.c.	ohmic	2	0,9
d.c.	inductive L/R ≈ 10 ms	1	0,3
d.c.	inductive, spark extinction with diode	1,5	0,7

Microswitch with gold plated contacts

I_{min} and I_{max} no limits,
useful upper limit:

U_{max} approx.. 48 V, I_{max} approx. 20 mA;

Operating the pressure switch with $U > 48$ V d.c. and/or $I > 20$ mA the gold layer the contacts will be damaged. The pressure switch can only be utilized for currents exceeding 20 mA .

The switching capacity with the remaining silver jump contacts is indicated in the table.

Reference switching number: 60/min
Reference temperature: + 30 °C
(with + 70 °C max. switching current 50% of the table values).

Contact durability
referred to max. switching current $\approx 1 \times 10^6$ switchings
(with 50% of the max. switching current approximately 3-times longer durability)

The creep and air distance as per VDE 0110 of the insulation group B (except the contact distance of the micro switch).

Recommended Circuit - Spark quenching / Intrinsically safe operation with d.c. voltage

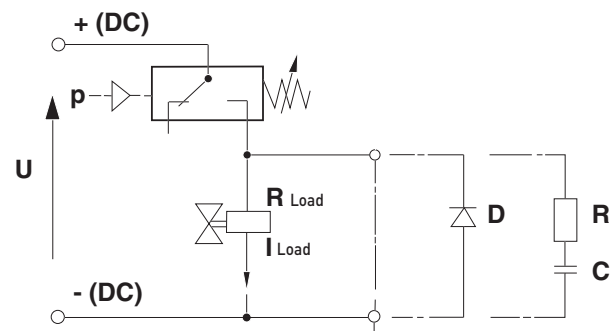
1. Diode D in parallel to inductive load.
Observance of correct polarity (positive pole to cathode).

Dimensioning specifications for erasing diode:
Nominal voltage of the diode $U_D \geq 1,4 \times U_S$
Nominal current of the diode $I_N \geq I_{Load}$

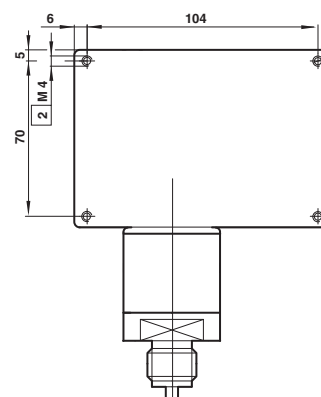
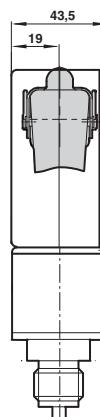
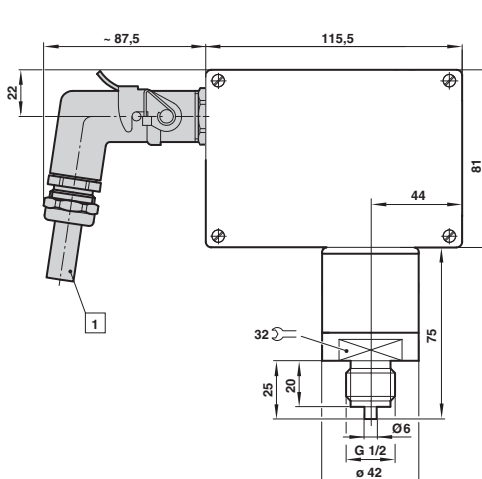
Select fast switching diodes
(blocking recovery time $t_{rr} \leq 200$ ms)

2. RC element parallel to the load
(or parallel to the switching contact).
Suitable for direct voltage and alternating voltage.

Dimensioning principles:
 R in $\Omega \approx 0,2 \times R_{Load}$ in Ω
 C in $\mu F \approx R_{Load}$ in [A]



BASIC DIMENSIONS



- 1 75° offset
- 2 x 10 deep