

Switching element illuminated**Switching system**

Short-travel switching system with two independent contact points and tactile operation. Guarantees reliable switching even of very light loads.

1 normally open contact

Material**Material of contact**

Gold (Au)

Switching element

Thermoplastic Polyester (PET, PBT) and Polyacetale (POM)

Mechanical characteristics**Actuating force**

with overlay foil 4 N \pm 1,5 N

Max. actuating force > 50 N, as per DIN 42115

Actuating travel

0.4 mm

Rebound time

\leq 1 ms

Resistance to heat of soldering

260 °C, 5 s, as per IEC 60068-2-20

Mechanical lifetime

> 5 million operations

Electrical characteristics**Contact resistance**

Starting value (initial) \leq 100 m Ω , as per IEC 60512-2-2b

Isolation resistance

\geq 1000 M Ω

Contact resistance

\leq 100 m Ω

as per 500 000 cycles of operation at 12 VDC, 5 mA resistive load \leq 200 m Ω

Electrical life

\geq 500 000 operations at 42 VDC, 50 mA, as per IEC 60512-5-9c

When attention is paid to the direction of current flow from terminal 3/4 to 1/2 the electrical life can be prolonged.

Switch rating

max. 2 VA (resistive load)

Switch rating

Switching voltage VDC/VAC	min. 50 mV	max. 42 V
Switching current VDC/VAC	min. 10 μ A	max. 100 mA
Power rating	max. 2 W	

Electric strength

500 VAC, 50 Hz, 1 min, as per IEC 60512-2-4a

Environmental conditions**Storage temperature**

-40 °C ... +85 °C

Operating temperature

-25 °C ... +70 °C

Switching element non-illuminated Part No. 70-100.0 and 70-101.0**Switching system**

Short-travel switching system with two independent contact points and tactile operation. Guarantees reliable switching even of very light loads.

1 normally open contact

Material**Material of contact**

Silver (Ag)

Mechanical characteristics**Actuating force**

with overlay foil 5 N \pm 2 N

Max. actuating force >50 N, as per DIN 42115

Actuating travel

0.3 mm

Rebound time

\leq 5ms

Mechanical lifetime

> 1 million operations

Electrical characteristics**Isolation resistance**

\geq 50 M Ω

Contact resistance

\leq 100 m Ω

as per 500 000 cycles of operation at 12 VDC, 5 mA resistive load \leq 200 m Ω

Electrical life

at 5 VDC, 1 mA > 1 million operations

at 24 VDC, 1 mA > 100 000 operations

Switch rating

\leq 1 VA (resistive load)

Switch rating

\leq 24 VDC, \leq 50 mA

Electric strength

250 VAC for 1min.

Environmental conditions**Storage temperature**

-30 °C ... +85 °C

Operating temperature

-20 °C ... +70 °C

Switching element non-illuminated Part No. 70-201.0**Switching system**

Short-travel switching system with two independent contact points and tactile operation. Guarantees reliable switching even of very light loads.

1 normally open contact

Material**Material of contact**

Gold (Au)

Switching element

Thermoplastic Polyester (PET, PBT) and Polyacetale (POM)

Mechanical characteristics**Actuating force**

with overlay foil 2.1 N \pm 0.2 N

Max. actuating force > 50 N, as per DIN 42115

Actuating travel

max. 0.5 mm

Rebound time

\leq 1 ms

Resistance to heat of soldering

260 °C, 5 s, as per IEC 60068-2-20

Mechanical lifetime

> 5 million operations

Front protection

front with overlay foil IP 65

Electrical characteristics**Contact resistance**

Starting value (initial) \leq 100 m Ω , as per IEC 60512-2-2b

Isolation resistance

\geq 1000 M Ω

Contact resistance

\leq 100 m Ω

as per 500 000 cycles of operation at 12 VDC, 5 mA resistive load \leq 200 m Ω

Electrical life

\geq 500 000 operations at 42 VDC, 50 mA, as per IEC 60512-5-9c

When attention is paid to the direction of current flow from terminal $\frac{3}{4}$ to $\frac{1}{2}$ the electrical life can be prolonged.

Switch rating

max. 42 V, 50 mA

min. 50 mV, 10 μ A

Switch rating

Switching voltage VDC/VAC	min. 50 mV	max. 42 V
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Switching current VDC/VAC	min. 10 mA	max. 100 mA
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Switch rating	max. 2 W
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Electric strength

500 VAC, 50 Hz, 1 min, as per IEC 60512-2-4a

Environmental conditions**Storage temperature**

-40 °C ... +85 °C

Operating temperature

-25 °C ... +70 °C