



- Normally open (NO)
- 2.00 mm
- Flush (shielded)
- Connector, M12x1-S27



**General attributes**

Approvals / Conformity

CE  
cULus  
EAC  
IEC 60947-5-2  
IP67  
Yes  
Yes  
No  
I  
Yes  
245 a

Basic standard

Enclosure Type per IEC 60529

Function indicator

Polarity reversal protected

Power indicator

Protection Class

Short circuit protected

MTTF (40°C)

**Electrical attributes**

Connection type

Eff. operating current I<sub>e</sub>

Eff. operating voltage U<sub>e</sub> AC

Electrical version

Minimum operating current I<sub>m</sub>

Operating voltage U<sub>B</sub> max. AC [V]

Operating voltage U<sub>B</sub> max. DC [V]

Operating voltage U<sub>B</sub> min. AC [V]

Operating voltage U<sub>B</sub> min. DC [V]

Rated frequency, AC

Rated insulation voltage U<sub>i</sub>

Rated short circuit current

Short-time cur. load cap. Freq

Short-time load cap./time I<sub>k</sub>/T

Switching freq. f max. (at U<sub>e</sub>)

Switching function

Connector  
130 mA  
110.0 V  
UC (AC/DC)  
5 mA  
250.0 V  
250.0 V  
20.0 V  
20.0 V  
50/60/DC  
250 VAC  
100 A  
0.5 Hz  
0.7 A/20 ms  
1000 Hz  
Normally open (NO)

Voltage drop dynamic max.

Voltage drop static max.

7.5 V

11.0 V

**Mechanical attributes**

Ambient temperature T<sub>a</sub> max.

Ambient temperature T<sub>a</sub> min.

Assured operating distance S<sub>a</sub>

Connector type

Depth

Diameter d1

Eff. operating distance S<sub>r</sub>

Housing material

Mech. installation condition

Mounting length

Rated operating distance S<sub>n</sub> [mm]

Sensing face material

Tightening torque

70 °C

-25 °C

1.60 mm

M12x1-S27

70.0 mm

M12x1

2.00 mm

Stainless steel

Flush (shielded)

40.5 mm

2.00 mm

PA 12

20 Nm

**Remarks**

With connector, e.g. BKS-S 28-... total length = switch length +20 mm.

T<sub>a</sub> ≥ 25 °C... ≤ 70 °C: I<sub>e</sub>= 130 - 0.67x(T<sub>a</sub>-25).

Flashing LED indicates overload. When the overload is removed, interrupt the supply voltage U<sub>b</sub> for approx. 2 sec.

For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

