



1) Active surface

- PNP
- Normally open (NO)
- 1.80 mm
- Flush (shielded)
- Cable with connector, Silicon rubber, 0.20 m M08x1-S49



**General attributes**

Approvals / Conformity	CE
Basic standard	cULus
Enclosure Type per IEC 60529	IEC 60947-5-2
Function indicator	IP67
Operating distance marking	Yes
Polarity reversal protected	■
Power indicator	Yes
Short circuit protected	No
	Yes

**Electrical attributes**

Connection type	Cable with connector
Eff. operating current I <sub>e</sub>	100 mA
Eff. operating voltage U <sub>e</sub> DC	24.0 V
Electrical version	DC, direct current
Load capacitance max. (at U <sub>e</sub> )	0.200 µF
Max. no-load cur. I <sub>o</sub> undamped	3.0 mA
No-load current I <sub>o</sub> damped max.	10.0 mA
Operating voltage U <sub>B</sub> max. DC [V]	30.0 V
Operating voltage U <sub>B</sub> min. DC [V]	9.6 V
Rated insulation voltage U <sub>i</sub>	75 VDC
Rated short circuit current	100 A
Ripple max. (% of U <sub>e</sub> )	15 %

Switching freq. f max. (at U <sub>e</sub> )	5000 Hz
Switching function	Normally open (NO)
Switching output	PNP
Voltage drop static max.	2.5 V

**Mechanical attributes**

Ambient temperature T <sub>a</sub> max.	70 °C
Ambient temperature T <sub>a</sub> min.	-25 °C
Assured operating distance S <sub>a</sub>	1.60 mm
Cable diameter D max.	3.5 mm
Cable jacket material	Silicon rubber
Cable length	0.20 m
Connector type	M08x1-S49
Depth	4.7 mm
Eff. operating distance S <sub>r</sub>	1.80 mm
Height (small side)	8.0 mm
Housing material	CuZn Ni-free coating
Mech. installation condition	Flush (shielded)
Rated operating distance S <sub>n</sub> [mm]	1.80 mm
Sensing face material	Ceramic
Width (long side)	16.0 mm

**Additional text**

The sensor is functional again after the overload has been eliminated.

