



1) Active surface Sensor 1 2) Active surface Sensor 2 3) Washer

- PNP
- Normally open (NO)
- 1.00 mm
- Flush (shielded)

- Cable with connector, PVC, M12x1-S04

LISTED IND. CONT. EQ. 81U2
for use in the secondary of
a class 2 source of supply**General attributes**

Approvals / Conformity

CE
cULus
IEC 60947-5-2
IP67
No
Yes
No
YesBasic standard
Enclosure Type per IEC 60529
Function indicator
Polarity reversal protected
Power indicator
Short circuit protectedSwitching freq. f max. (at Ue)
Switching function
Switching output
Voltage drop static max.700 Hz
Normally open (NO)
PNP
2.5 V**Electrical attributes**

Connection type	Cable with connector
Eff. operating current I _e	200 mA
Eff. operating voltage U _e DC	24.0 V
Electrical version	DC, direct current
Load capacitance max. (at U _e)	1.000 µF
Max. no-load cur. I _o undamped	10.0 mA
Minimum operating current I _m	0 mA
No-load current I _o damped max.	15.0 mA
Operating voltage U _B max. DC [V]	30.0 V
Operating voltage U _B min. DC [V]	9.6 V
Rated insulation voltage U _i	75 VDC
Rated short circuit current	100 A
Ripple max. (% of U _e)	15 %

Mechanical attributes

Ambient temperature T _a max.	100 °C
Ambient temperature T _a min.	10 °C
Assured operating distance S _a	0.80 mm
Cable diameter D max.	3.7 mm
Cable jacket material	PVC
Connector type	M12x1-S04
Depth	24.0 mm
Diameter d1	D07.9
Eff. operating distance S _r	1.00 mm
Housing material	Stainless steel
Mech. installation condition	Flush (shielded)
Rated operating distance S _n [mm]	1.00 mm
Sensing face material	POM

Additional text

The sensor is functional again after the overload has been eliminated.
When using an AC bridge, an electrolytic capacitor ≥ 10 µF/40V parallel to U_B is recommended.

