



- PNP
- Normally open (NO)
- 2.00 mm
- Flush (shielded)
- Cable, PVC, 2.00 m



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



IND. CONT. EQ.
81U2
for use in the secondary of
a class 2 source of supply
Environmental - Type 1 Enclosure

**General attributes**

Approvals / Conformity

Basic standard	CE
Enclosure Type per IEC 60529	cULus
Function indicator	EAC
Operating distance marking	IEC 60947-5-2
Polarity reversal protected	IP68 according to BWN PR 20
Power indicator	Yes
Protection Class	■ ■
Short circuit protected	Yes
MTTF (40°C)	No
	II
	Yes
	830 a

Electrical attributes

Connection type	Cable
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)	0.500 µF
Max. no-load cur. I _o undamped	3.0 mA
Minimum operating current I _m	0 mA
No-load current I _o damped max.	9.0 mA
Operating voltage U _B max. DC [V]	30.0 V
Operating voltage U _B min. DC [V]	10.0 V
Rated insulation voltage U _i	250 VAC
Rated short circuit current	100 A
Ripple max. (% of U _e)	15 %
Switching freq. f max. (at U _e)	1500 Hz
Switching function	Normally open (NO)
Switching output	PNP

Voltage drop static max.

2.5 V

Mechanical attributes

Ambient temperature T _a max.	70 °C
Ambient temperature T _a min.	-25 °C
Assured operating distance S _a	1.60 mm
Cable diameter D max.	3.0 mm
Cable jacket material	PVC
Cable length	2.00 m
Conductor cross-section	0.14 mm ²
Depth	45.0 mm
Diameter d1	M08x1
Eff. operating distance S _r	2.00 mm
Housing material	Stainless steel
Mech. installation condition	Flush (shielded)
Mounting length	44.0 mm
Number of conductors	3
Rated operating distance S _n [mm]	2.00 mm
Sensing face material	PBT
Tightening torque	8 Nm

Remarks

The sensor is functional again after the overload has been eliminated.
Embeddable: See installation notes for inductive sensors with extended switching distance 825357.

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.

Inductive sensor

BES 516-324-G-EO-C-02

Order code: BES01AM

BALLUFF

