



General attributes

Approvals / Conformity

cULus

Basic standard

CE
 IEC 60947-5-7
 BWN PR 44
 IEC 60947-5-2

Enclosure Type per IEC 60529

IP67

Polarity reversal protected

Yes

Power indicator

No

Short circuit protected

Yes

MTTF

640 a

Electrical attributes

Connection type

Cable

Eff. operating voltage Ue DC

24.00 V

Electrical version

DC, direct current

Limit frequency -3dB

500 Hz

Linear range SI max.

5.00 mm

Linear range SI min. [mm]

1.00 mm

Load resistance RL max.

500 Ohm

No-load current max. Io at Ue

10.0 mA

Operating voltage UB max. DC [V]

28.80 V

Operating voltage UB min. DC [V]

15.00 V

Output current at Se

12.00 mA

Output current at SI max.

20.00 mA

Output current at SI min.

4.00 mA

Rated frequency, AC

DC

Rated insulation voltage Ui

75 DC

Ripple max. (% of Ue)

15 %

Slope I

4.00 mA/mm

Switching function

Current falling on approach

Switching output

PNP / Analog

Mechanical attributes

Adjustment indicator

Yes

Ambient temperature Ta max.

70 °C

Ambient temperature Ta min.

-10 °C

Cable diameter D max.

4.6 mm

Cable jacket material

PUR

Cable length

3.00 m

Conductor cross-section

0.34 mm²

Depth

36.0 mm

Diameter d1

M18x1.0

Housing material

Brass

Measuring speed max.

40.0 m/s

Mech. installation condition

Flush (shielded)

Number of conductors

3

Opt. working temperature max.

50 °C

Opt. working temperature min.

10 °C

Rated operating dist. Se

3.00 mm

Repeat acc. R of end value max

3.0 %

Repeat accuracy per BWN

±8.0 µm

Response time

1.0 ms

Sensing face material

PBT

Surface protection

Nickel-plated

Temp. drift max. of span

±5.0 %

Tightening torque

25 Nm

Remarks

When used in Balluff clamping holders, Ua may be reduced by max. 10 %

Values referenced to axial approach of St 37 target. For other materials correction factors are applied.

Load resistance RL max. applies to Vs min. 16V.

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.



