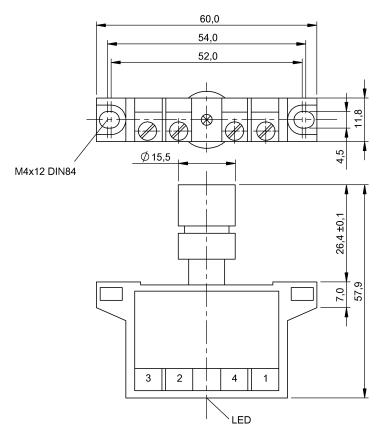
BES 517-142-Y-RK

Order Code: BES02MN







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Additional features

Approval/Conformity

CULus

CE

UKCA

EAC

WEEE

Basic standard

IEC 60947-5-2

Display/Operation

Function indicator yes
Power indicator no

Electrical connection

Polarity reversal protected yes
Protection against device mix-ups yes
Short-circuit protection yes

Electrical data

Load capacitance max. at Ue 1 μF Min. operating current Im 0 mA No-load current lo max., damped 30 mA No-load current lo max., undamped 30 mA 10...30 VDC Operating voltage Ub 2.7 kOhm + D + LED/4.7 kOhm + Output resistance Ra 75 V DC Rated insulation voltage Ui Rated operating current le 130 mA Rated operating voltage Ue DC 24 V Rated short circuit current 100 A Ready delay tv max. 10 ms Residual current Ir max. 80 μΑ Ripple max. (% of Ue) 15 % Switching frequency 500 Hz **Utilization category** DC -13 Voltage drop static max. 3.5 V

Inductive Sensors

BES 517-142-Y-RK Order Code: BES02MN



Environmental conditions

Ambient temperature -25...70 °C Contamination scale 3

EN 60068-2-27, Shock Half-sinus, 30 g_n, 11 ms

EN 60068-2-6, Vibration 55 Hz, amplitude 1 mm, 3x30 min IP rating IP67, only installed in multiple

limit switches

Functional safety

MTTF (40 °C) 1255 a

Interface

Switching output PNP normally open/normally

closed (NO/NC)

Material

Housing material PA 12 Material sensing surface PBT

Mechanical data

Connection cross-section 2.5 mm²

Dimension 60 x 15.5 x 57.9 mm Installation for flush mounting

Tightening torque 0.5 Nm

Range/Distance

Assured operating distance Sa 4 mm Hysteresis H max. (% of Sr) 15.0 % Rated operating distance Sn 5 mm Real switching distance sr 5 mm Repeat accuracy max. (% of Sr) 5.0 % Temperature drift max. (% of Sr) 10 % Tolerance Sr ±10 %

Remarks

Insert element must be installed in aluminum housing.

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

For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Subject to change without notice: 281362

Wiring Diagrams

