



Basic features

| | |
|---------------------|--------------------|
| Approval/Conformity | CE UKCA WEEE |
| Basic standard | IEC 60947-5-2 |

Display/Operation

| | |
|--------------------|-----|
| Function indicator | yes |
| Power indicator | yes |

Electrical connection

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

Electrical data

| | |
|--------------------------------------|---------------|
| Load capacitance max. at U_e | 1 μ F |
| Min. operating current I_m | 0 mA |
| No-load current I_o max., damped | 20 mA |
| No-load current I_o max., undamped | 15 mA |
| Operating voltage U_b | 10...55 VDC |
| Output resistance R_a | 33.0 kOhm + D |
| Protection class | II |
| Rated insulation voltage U_i | 250 V AC |
| Rated operating current I_e | 200 mA |
| Rated operating voltage U_e DC | 24 V |
| Rated short circuit current | 100 A |
| Ready delay t_v max. | 30 ms |
| Residual current I_r max. | 80 μ A |
| Ripple max. (% of U_e) | 15 % |
| Switching frequency | 60 Hz |
| Utilization category | DC -13 |
| Voltage drop static max. | 2.5 V |

Inductive Sensors
BES 517-134-M5-H
Order Code: BES020K



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 |

Interface

| | |
|----------------------------|---|
| Cable fitting, thread size | M20x1.5 |
| Switching output | NPN normally open/normally closed (NO/NC) |

Material

| | |
|--------------------------|-----|
| Housing material | PBT |
| Material sensing surface | PBT |

Mechanical data

| | |
|----------------------------------|---------------------|
| Connection cross-section | 2.5 mm ² |
| Dimension | 120 x 40 x 40 mm |
| Installation | non-flush |
| Size | 40x40 |
| Tightening torque | 4...5 Nm (M20x1.5) |
| Tightening torque clamping screw | 0.8 Nm |

Range/Distance

| | |
|----------------------------------|--------|
| Assured operating distance Sa | 24 mm |
| Hysteresis H max. (% of Sr) | 20.0 % |
| Rated operating distance Sn | 30 mm |
| Real switching distance sr | 30 mm |
| Repeat accuracy max. (% of Sr) | 5.0 % |
| Temperature drift max. (% of Sr) | 10 % |
| Tolerance Sr | ±10 % |

Remarks

LED 1: Function
LED 2: Operating voltage
The sensor is functional again after the overload has been eliminated.

Wiring Diagrams (Schematic)

