



Basic features

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

Display/Operation

| | |
|---------------------------|------------|
| Function indicator | LED yellow |
| Power indicator | Green LED |

Electrical connection

| | |
|------------------------------------|---------------|
| Polarity reversal protected | yes |
| Short-circuit protection | synchronizing |

Electrical data

| | |
|--|---------------------------|
| Min. operating current I_m | 5 mA |
| Operating voltage U_b | 20...275 VDC/20...253 VAC |
| Protection class | II |
| Rated insulation voltage U_i | 230 V AC |
| Rated operating current I_e | 500 mA |
| Rated operating voltage U_e AC | 230 V |
| Rated operating voltage U_e DC | 250 V |
| Rated short circuit current | 100 A |
| Ready delay t_v max. | 300 ms |
| Residual current I_r max. | 1500 μ A |

Environmental conditions

| | |
|--------------------------------|---------------------------------|
| Ambient temperature | -25...85 °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 |

Functional safety

| | |
|---------------------|-------|
| MTTF (40 °C) | 540 a |
|---------------------|-------|

Inductive Sensors
BES Q40KU-UPU20B-KM20
Order Code: BES05YW

BALLUFF

Interface

Switching output NO/NC

Material

Housing material Plastic
Material sensing surface PA 6.6

Mechanical data

Connection cross-section 2.5 mm²
Dimension 40 x 40 x 118 mm
Installation for flush mounting
Size 40x40
Tightening torque clamping screw 1.2 Nm

Range/Distance

Hysteresis H max. (% of Sr) 10 %
Real switching distance sr 20 mm
Repeat accuracy max. (% of Sr) 5.0 %
Temperature drift max. (% of Sr) 10 %
Tolerance Sr ±10 %

Wiring Diagrams

