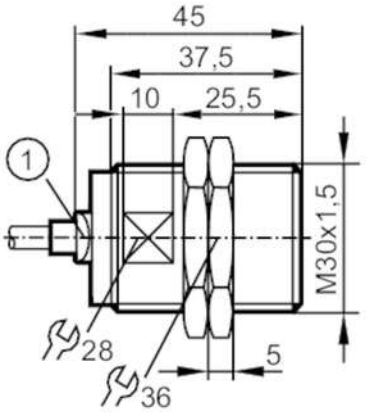
# IIS717

## Inductive sensor

IIB2015BARKG/5M/PUR




1 LED yellow

| | | |
|---|---|---|
| **Product characteristics** | | |
| Electrical design | | PNP/NPN |
| Output function | | normally open |
| Sensing range | [mm] | 15 |
| Housing | | threaded type |
| Dimensions | [mm] | M30 x 1.5 / L = 45 |
| **Application** | | |
| Special feature | | Drag chain suitability; Increased sensing range |
| Application | | Industrial applications / factory automation |
| **Electrical data** | | |
| Operating voltage | [V] | 10...30 DC |
| Protection class | | III |
| Reverse polarity protection | | yes |
| **Outputs** | | |
| Electrical design | | PNP/NPN |
| Output function | | normally open |
| Max. voltage drop switching output DC | [V] | 2.5 |
| Minimum load current | [mA] | 2 |
| Max. leakage current | [mA] | 0.6 |
| Permanent current rating of switching output DC | [mA] | 100 |
| Switching frequency DC | [Hz] | 100 |
| Short-circuit protection | | yes |
| Overload protection | | yes |
| **Detection zone** | | |
| Sensing range | [mm] | 15 |
| Real sensing range Sr | [mm] | 15 ± 10 % |
| Operating distance | [mm] | 0...12.15 |

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| | | | |
|---|---|---|---|
| Increased sensing range | | | yes |
| **Accuracy / deviations** | | | |
| Correction factor | | | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 |
| Hysteresis | [% of Sr] | | 3...15 |
| Switch point drift | [% of Sr] | | -10...10 |
| **Operating conditions** | | | |
| Ambient temperature | [°C] | | -40...85 |
| Protection | | | IP 65; IP 66; IP 67; IP 68; IP 69K |
| **Tests / approvals** | | | |
| EMC | | EN 61000-4-2 ESD | 4 kV CD / 8 kV AD |
| | | EN 61000-4-3 HF radiated | 10 V/m |
| | | EN 61000-4-4 Burst | 2 kV |
| | | EN 61000-4-6 HF conducted | 10 V |
| | | EN 55011 | class B |
| Vibration resistance | | EN 60068-2-6 Fc | 20 g (10...3000 Hz) / 50 sweep cycles, 1 octave per minute, in 3 axes |
| Shock resistance | | EN 60068-2-27 Ea | 100 g 11 ms half-sine; 3 shocks each in every direction of the 3 coordinate axes |
| Continuous shock resistance | | EN 60068-2-27 | 40 g 6 ms; 4000 shocks each in every direction of the 3 coordinate axes |
| Fast temperature change | | EN 60068-2-14 Na | TA = -40 °C; TB = 85 °C; t1 = 30 min; t2 = < 10 s; 50 cycles |
| Salt spray test | | EN 60068-2-52 Kb | severity level 5 (4 test cycles) |
| MTTF | [years] | | 909 |
| Embedded software included | | | yes |
| UL approval | | Ta | -25...75 °C |
| | | Enclosure type | Type 1 |
| | | power supply | Limited Voltage/Current |
| | | UL Approval no. | A007 |
| | | File number UL | E174191 |
| **Mechanical data** | | | |
| Weight | [g] | | 210.18 |
| Housing | | | threaded type |
| Mounting | | | flush mountable |
| Dimensions | [mm] | | M30 x 1.5 / L = 45 |
| Thread designation | | | M30 x 1.5 |
| Materials | | | housing: brass white bronze coated; sensing face: PBT orange; LED window: PEI; lock nuts: brass white bronze coated |
| Tightening torque | [Nm] | | 50; (see operating instructions) |
| Drag chain suitability | | | yes |
| Drag chain suitability | | bending radius for flexible use | min. 10 x cable diameter |
| | | bending cycles | > 5 Mio. |
| **Displays / operating elements** | | | |
| Display | | switching status | 1 x LED, yellow |
| **Accessories** | | | |
| Items supplied | | | lock nuts: 2 |
| | | | Tooth lock washer: 1, stainless steel |

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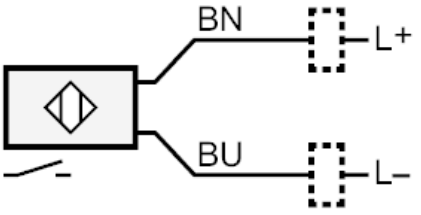
| Remarks | |
|---|---|
| Pack quantity | 1 pcs. |

## Electrical connection

Cable: 5 m, PUR; 2 x 0.34 mm²

Connection




| | Core colours : |
|---|---|
| BN = | brown |
| BU = | blue |