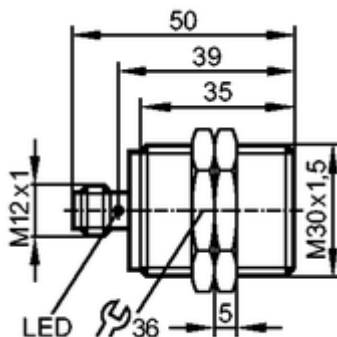


**IIS204**

IIB3015BBPKG/US-104

Inductive sensors

**Product characteristics**

Inductive sensor

Metal thread M30 x 1.5

Connector

Increased sensing range

Gold-plated contacts

Sensing range 15 mm; [f] flush mountable

**Electrical data**

|                             |  |
|-----------------------------|--|
| Electrical design           | DC PNP                                 |
| Operating voltage [V]       | 10...30 DC; "supply class 2" to cULus. |
| Current consumption [mA]    | < 10                                   |
| Protection class            | II                                     |
| Reverse polarity protection | yes                                    |

**Outputs**

|                          |               |
|--------------------------|---------------|
| Output function          | normally open |
| Voltage drop [V]         | < 2.5         |
| Current rating [mA]      | 100           |
| Short-circuit protection | yes           |
| Overload protection      | yes           |
| Switching frequency [Hz] | 100           |

**Range**


|                              |           |
|------------------------------|-----------|
| Sensing range [mm]           | 15        |
| Real sensing range (Sr) [mm] | 15 ± 10 % |
| Operating distance [mm]      | 0...12.15 |

**Accuracy / deviations**

|                              |  |
|------------------------------|--|
| Correction factors           | mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3 |
| Hysteresis [% of Sr]         | 3...15   |
| Switch-point drift [% of Sr] | -10...10   |

**Environment**

|                          |          |
|--------------------------|----------|
| Ambient temperature [°C] | -25...70 |
|--------------------------|----------|

|  |   |                   |
|--|---|-------------------|
| Protection   | IP 67   |                   |
| <b>Tests / approvals</b>   |   |                   |
| 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           |
| MTTF [Years]   | 1528  |                   |
| UL approval number   | A001  |                   |
| <b>Mechanical data</b>   |   |                   |
| Mounting   | flush mountable   |                   |
| Housing materials  | Brass white bronze coated; active face: PBT orange; LED window: PEI; lock nuts: Brass white bronze coated |                   |
| Weight [kg]  | 0.119   |                   |
| <b>Displays / operating elements</b>   |   |                   |
| Output status indication LED   | 4 x yellow  |                   |
| <b>Electrical connection</b>   |   |                   |
| Connection   | M12 connector; Gold-plated contacts   |                   |
| <b>Wiring</b>  |   |                   |
|  |   |                   |
| <b>Accessories</b>   |   |                   |
| Accessories (included)   | 2 lock nuts   |                   |
| <b>Remarks</b>   |   |                   |
| Pack quantity [piece]  | 1   |                   |

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