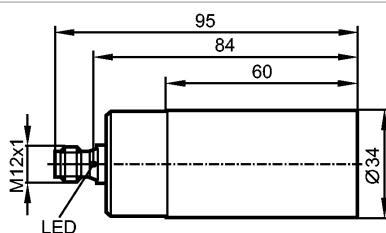


**IB5171**

IB-4030-CPKG/US

Inductive sensors



**Product characteristics**

|   |
|---|
| Inductive sensor                              |
| Plastic housing Ø 34 mm                       |
| Quick disconnect                              |
| Sensing range 30 mm; [nf] non-flush mountable |

**Electrical data**

|                             |            |
|-----------------------------|------------|
| Electrical design           | DC PNP     |
| Operating voltage [V]       | 10...30 DC |
| Current consumption [mA]    | < 15       |
| Protection class            | II         |
| Reverse polarity protection | yes        |

**Outputs**

|                          |                    |
|--------------------------|--------------------|
| Output function          | complementary      |
| Voltage drop [V]         | < 2.5              |
| Current rating [mA]      | 200                |
| Short-circuit protection | yes (non-latching) |
| Overload protection      | yes                |
| Switching frequency [Hz] | 350                |

**Monitoring range**

|                              |           |
|------------------------------|-----------|
| Sensing range [mm]           | 30        |
| Real sensing range (Sr) [mm] | 30 ± 10 % |
| Operating distance [mm]      | 0...24.3  |

**Accuracy / deviations**

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

**Environment**

|                          |          |
|--------------------------|----------|
| Ambient temperature [°C] | -25...80 |
| Protection               | IP 67    |

**Tests / approvals**

|              |   |
|--------------|---|
| EMC          | EN 60947-5-2<br>EN 61000-4-2 ESD: 4 kV CD / 8 kV AD<br>EN 61000-4-3 HF radiated: 10 V/m<br>EN 61000-4-4 Burst: 2 kV<br>EN 61000-4-5 Surge: 0.5 kV (line to line, Ri: 20Ω)<br>EN 61000-4-6 HF conducted: 10 V<br>EN 55011: class B |
| MTTF [Years] | 1334  |

## IB5171

IB-4030-CPKG/US

Inductive sensors

### Mechanical data

|                   |   |
|-------------------|---|
| Mounting          | non-flush mountable                       |
| Housing materials | PBT; connector housing: brass PTFE-coated |
| Weight [kg]       | 0.246                                     |

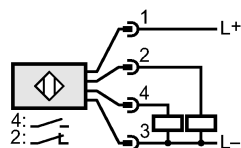
### Displays / operating elements

|                          |     |        |
|--------------------------|-----|--------|
| Output status indication | LED | yellow |
|--------------------------|-----|--------|

### Electrical connection

|            |               |
|------------|---------------|
| Connection | M12 connector |
|------------|---------------|

#### Wiring



### Accessories

|                        |                |
|------------------------|----------------|
| Accessories (included) | Mounting clamp |
|------------------------|----------------|

### Remarks

|               |         |   |
|---------------|---------|---|
| Pack quantity | [piece] | 1 |
|---------------|---------|---|