

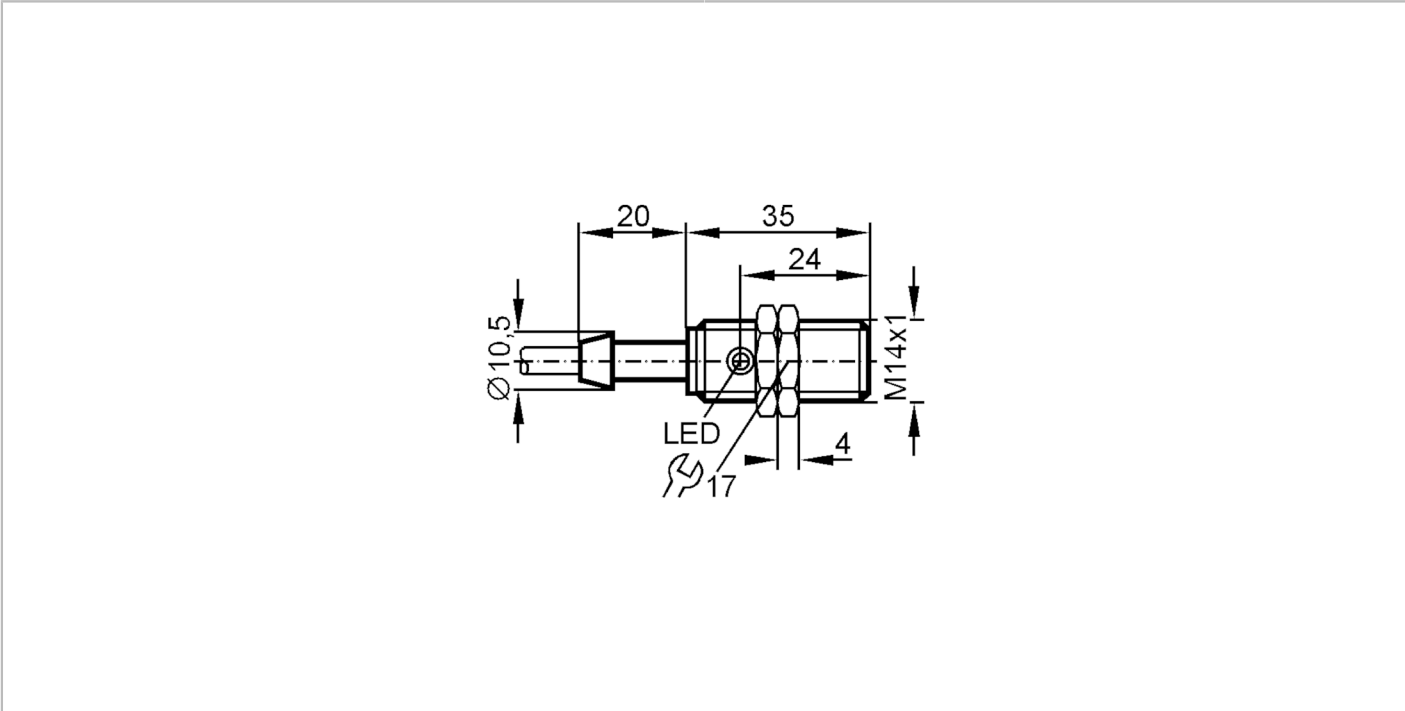
# IP5001



## Inductive sensor

IP-5001

Article no longer available - archive entry



| Product characteristics                         |      |                       |
|-------------------------------------------------|------|-----------------------|
| Electrical design                               |      | PNP                   |
| Output function                                 |      | normally open         |
| Sensing range                                   | [mm] | 2                     |
| Housing                                         |      | Threaded type         |
| Dimensions                                      | [mm] | M14 x 1               |
| Electrical data                                 |      |                       |
| Operating voltage                               | [V]  | 18...36 DC            |
| Current consumption                             | [mA] | 15; (24 V)            |
| Protection class                                |      | II                    |
| Reverse polarity protection                     |      | yes                   |
| Outputs                                         |      |                       |
| Electrical design                               |      | PNP                   |
| Output function                                 |      | normally open         |
| Max. voltage drop switching output DC           | [V]  | 2.5                   |
| Permanent current rating of switching output DC | [mA] | 125; (150 (...50 °C)) |
| Short-time current rating of switching output   | [mA] | 150                   |
| Switching frequency DC                          | [Hz] | 800                   |
| Short-circuit protection                        |      | yes                   |
| Type of short-circuit protection                |      | yes (non-latching)    |

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|                               |  |                                                                            |                 |
|-------------------------------|--|----------------------------------------------------------------------------|-----------------|
| Overload protection           |  | yes                                                                        |                 |
| Monitoring range              |  |                                                                            |                 |
| Sensing range                 |  | [mm]                                                                       | 2               |
| Real sensing range Sr         |  | [mm]                                                                       | 2 ± 10 %        |
| Operating distance            |  | [mm]                                                                       | 0...1.6         |
| Accuracy / deviations         |  |                                                                            |                 |
| Correction factor             |  | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2 |                 |
| Hysteresis                    |  | [% of Sr]                                                                  | 3...15          |
| Switch-point drift            |  | [% of Sr]                                                                  | -10...10        |
| Operating conditions          |  |                                                                            |                 |
| Ambient temperature           |  | [°C]                                                                       | -25...80        |
| Protection                    |  | IP 67                                                                      |                 |
| Tests / approvals             |  |                                                                            |                 |
| EMC                           |  | EN 60947-5-2                                                               |                 |
|                               |  | EN 55011                                                                   | class B         |
| Mechanical data               |  |                                                                            |                 |
| Housing                       |  | Threaded type                                                              |                 |
| Mounting                      |  | flush mountable                                                            |                 |
| Dimensions                    |  | [mm]                                                                       | M14 x 1         |
| Thread designation            |  | M14 x 1                                                                    |                 |
| Material                      |  | brass nickel-plated; PBT                                                   |                 |
| Displays / operating elements |  |                                                                            |                 |
| Display                       |  | Switching status                                                           | 1 x LED, yellow |
| Accessories                   |  |                                                                            |                 |
| Items supplied                |  | lock nuts: 2                                                               |                 |
| Remarks                       |  |                                                                            |                 |
| Pack quantity                 |  | 1 pcs.                                                                     |                 |

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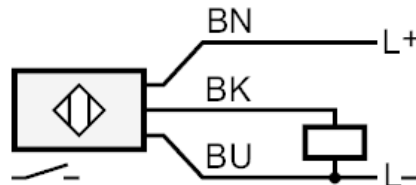
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### Electrical connection

Cable: 2 m, PVC; 3 x 0.34 mm<sup>2</sup>

### Connection



|      |               |
|------|---------------|
| BN = | Core colors : |
| BU = | brown         |
| BK = | blue          |
|      | black         |