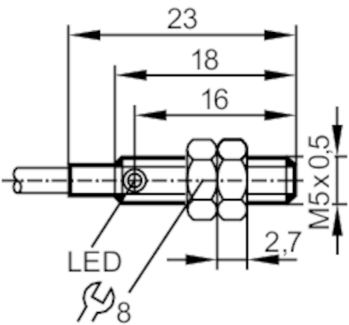


# IY5052



## Inductive sensor

IYB31,2-BPKG/V2A



### Product characteristics

|                    |                   |
|--------------------|-------------------|
| Electrical design  | PNP               |
| Output function    | normally open     |
| Sensing range [mm] | 1.2               |
| Housing            | threaded type     |
| Dimensions [mm]    | M5 x 0.5 / L = 23 |

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...30 DC |
| Current consumption [mA]    | 15; (24 V) |
| Protection class            | III        |
| 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] | 100           |
| Switching frequency DC [Hz]                          | 2000          |
| Short-circuit protection                             | yes           |
| Type of short-circuit protection                     | pulsed        |
| Overload protection                                  | yes           |

### Detection zone

|                         |          |
|-------------------------|----------|
| Sensing range [mm]      | 1.2      |
| Operating distance [mm] | 0...0.97 |

### Accuracy / deviations

|                      |                                                                             |
|----------------------|-----------------------------------------------------------------------------|
| Correction factor    | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 |
| Hysteresis [% of Sr] | 1...15                                                                      |

### Operating conditions

|                          |          |
|--------------------------|----------|
| Ambient temperature [°C] | -25...70 |
| Protection               | IP 65    |

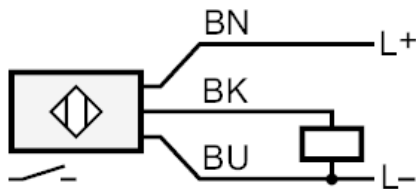
IY5052



Inductive sensor

IYB31,2-BPKG/V2A

| Tests / approvals             |                           |                                                 |
|-------------------------------|---------------------------|-------------------------------------------------|
| EMC                           | EN 61000-4-2 ESD          | 4 kV CD / 8 kV AD                               |
|                               | EN 61000-4-3 HF radiated  | 3 V/m                                           |
|                               | EN 61000-4-4 Burst        | 2 kV                                            |
|                               | EN 61000-4-6 HF conducted | 3 V                                             |
|                               | EN 55011                  | class B                                         |
| MTTF                          | [years]                   | 2060                                            |
| Mechanical data               |                           |                                                 |
| Weight                        | [g]                       | 35                                              |
| Housing                       |                           | threaded type                                   |
| Mounting                      |                           | flush mountable                                 |
| Dimensions                    | [mm]                      | M5 x 0.5 / L = 23                               |
| Thread designation            |                           | M5 x 0.5                                        |
| Materials                     |                           | stainless steel (303/1.4305); sensing face: POM |
| Tightening torque             | [Nm]                      | 2                                               |
| Displays / operating elements |                           |                                                 |
| Display                       | switching status          | 1 x LED, yellow                                 |
| Accessories                   |                           |                                                 |
| Items supplied                |                           | lock nuts: 2                                    |
| Remarks                       |                           |                                                 |
| Pack quantity                 |                           | 1 pcs.                                          |
| Electrical connection         |                           |                                                 |
| Cable: 2 m, PUR; 3 x 0.14 mm² |                           |                                                 |
| Connection                    |                           |                                                 |



BK =

BN =

BU =

Core colours :

black

brown

blue