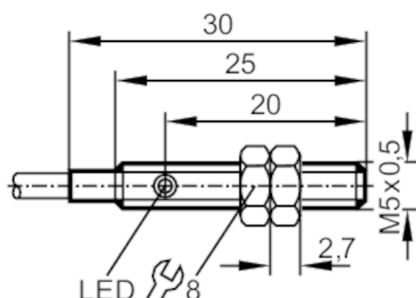


## Inductive sensor

IYB30,8-BPKG/V2A



## Product characteristics

|                    |                   |
|--------------------|-------------------|
| Electrical design  | PNP               |
| Output function    | normally open     |
| Sensing range [mm] | 0.8               |
| Housing            | threaded type     |
| Dimensions [mm]    | M5 x 0.5 / L = 30 |

## Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...36 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]         | 0.8            |
| Real sensing range Sr [mm] | $0.8 \pm 10\%$ |
| Operating distance [mm]    | 0...0.65       |

## Accuracy / deviations

|                              |                                                                             |
|------------------------------|-----------------------------------------------------------------------------|
| Correction factor            | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 |
| Hysteresis [% of Sr]         | 1...15                                                                      |
| Switch point drift [% of Sr] | -10...10                                                                    |

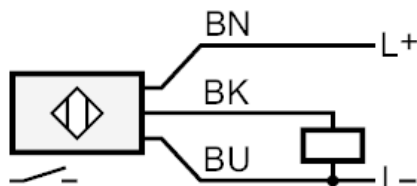
# IY5029



## Inductive sensor

IYB30,8-BPKG/V2A

| Operating conditions                      |                           |                                                 |
|-------------------------------------------|---------------------------|-------------------------------------------------|
| Ambient temperature                       | [°C]                      | -25...70                                        |
| Protection                                |                           | IP 65                                           |
| 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]                   | 2053                                            |
| Mechanical data                           |                           |                                                 |
| Weight                                    | [g]                       | 42.9                                            |
| Housing                                   |                           | threaded type                                   |
| Mounting                                  |                           | flush mountable                                 |
| Dimensions                                | [mm]                      | M5 x 0.5 / L = 30                               |
| 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, PVC; 3 x 0.14 mm <sup>2</sup> |                           |                                                 |
| Connection                                |                           |                                                 |



Core colours :  
BN = brown  
BU = blue  
BK = black