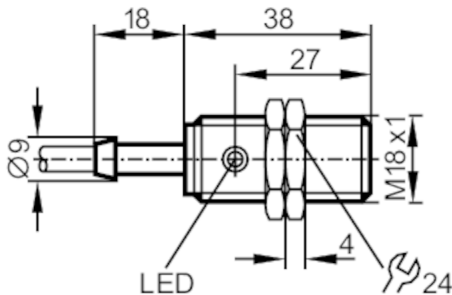


# IG5246



## Inductive sensor

IGB3005-APOG



### Product characteristics

|                    |                  |
|--------------------|------------------|
| Electrical design  | PNP              |
| Output function    | normally closed  |
| Sensing range [mm] | 5                |
| Housing            | threaded type    |
| Dimensions [mm]    | M18 x 1 / L = 38 |

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 18...36 DC |
| Current consumption [mA]    | 15; (24 V) |
| Protection class            | II         |
| Reverse polarity protection | no         |

### Outputs

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| Electrical design                                    | PNP                   |
| Output function                                      | normally closed       |
| Max. voltage drop switching output DC [V]            | 2.5                   |
| Permanent current rating of switching output DC [mA] | 125; (150 (...50 °C)) |
| Switching frequency DC [Hz]                          | 500                   |
| Short-circuit protection                             | no                    |
| Overload protection                                  | no                    |

### Detection zone

|                               |               |
|-------------------------------|---------------|
| Sensing range [mm]            | 5             |
| Real sensing range $S_r$ [mm] | $5 \pm 10 \%$ |
| Operating distance [mm]       | 0...4.05      |

### Accuracy / deviations

|                                  |                                                                             |
|----------------------------------|-----------------------------------------------------------------------------|
| Correction factor                | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2 |
| Hysteresis [% of $S_r$ ]         | 1...15                                                                      |
| Switch point drift [% of $S_r$ ] | -10...10                                                                    |

### Operating conditions

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

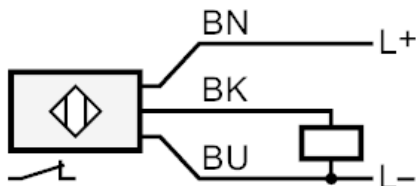
# IG5246



## Inductive sensor

IGB3005-APOG

| Tests / approvals                        |                  |                               |
|------------------------------------------|------------------|-------------------------------|
| EMC                                      | EN 60947-5-2     |                               |
|                                          | EN 55011         | class B                       |
| MTTF                                     | [years]          | 3077                          |
| Mechanical data                          |                  |                               |
| Weight                                   | [g]              | 137.8                         |
| Housing                                  |                  | threaded type                 |
| Mounting                                 |                  | flush mountable               |
| Dimensions                               | [mm]             | M18 x 1 / L = 38              |
| Thread designation                       |                  | M18 x 1                       |
| Materials                                |                  | brass white bronze coated; PC |
| 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 0.5 mm <sup>2</sup> |                  |                               |
| Connection                               |                  |                               |



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