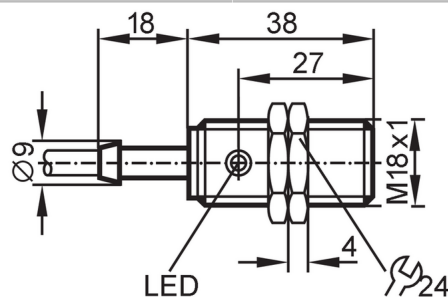


# IG5234



## Inductive sensor

IGB3005-ANKG



### Product characteristics

|                    |                  |
|--------------------|------------------|
| Electrical design  | NPN              |
| Output function    | normally open    |
| 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 | yes        |

### Outputs

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| Electrical design                                    | NPN                   |
| 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)) |
| Switching frequency DC [Hz]                          | 500                   |
| Short-circuit protection                             | yes                   |
| Type of short-circuit protection                     | yes (non-latching)    |
| Overload protection                                  | yes                   |

### Monitoring range

|                               |               |
|-------------------------------|---------------|
| 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 / aluminum: 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    |

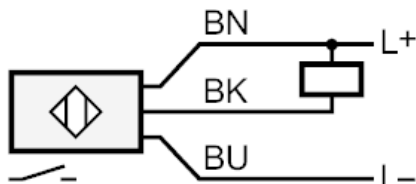
# IG5234



## Inductive sensor

IGB3005-ANKG

| Tests / approvals             |                  |                                                      |
|-------------------------------|------------------|------------------------------------------------------|
| EMC                           | EN 60947-5-2     |                                                      |
|                               | EN 55011         | class B                                              |
| MTTF                          | [years]          | 2279                                                 |
| Mechanical data               |                  |                                                      |
| Weight                        | [g]              | 140.4                                                |
| Housing                       |                  | Threaded type                                        |
| Mounting                      |                  | flush mountable                                      |
| Dimensions                    | [mm]             | M18 x 1 / L = 38                                     |
| Thread designation            |                  | M18 x 1                                              |
| Material                      |                  | housing: brass white bronze coated; sensing face: 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 mm²  |                  |                                                      |
| Connection                    |                  |                                                      |



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