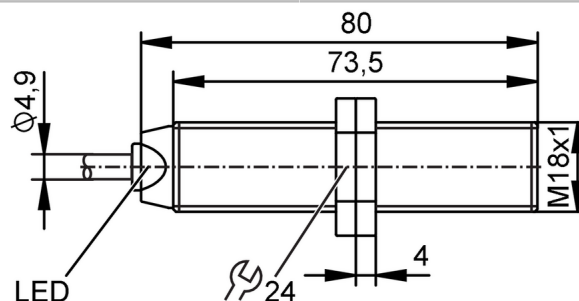


# IG5499



## Inductive sensor

IGA3005-BPKG/6M/PH



### Product characteristics

|                    |                  |
|--------------------|------------------|
| Electrical design  | PNP              |
| Output function    | normally open    |
| Sensing range [mm] | 5                |
| Housing            | Threaded type    |
| Dimensions [mm]    | M18 x 1 / L = 80 |

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...36 DC |
| Current consumption [mA]    | 15         |
| 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] | 250                |
| 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    |

# IG5499



## Inductive sensor

IGA3005-BPKG/6M/PH

| Tests / approvals |                           |                   |
|-------------------|---------------------------|-------------------|
| EMC               | EN 61000-4-2 ESD          | 4 kV CD / 8 kV AD |
|                   | EN 61000-4-3 HF radiated  | 10 V/m            |
|                   | EN 61000-4-4 Burst        | 2 kV              |
|                   | EN 61000-4-6 HF conducted | 10 V              |
|                   | EN 55011                  | class B           |
| MTTF              | [years]                   | 1884              |

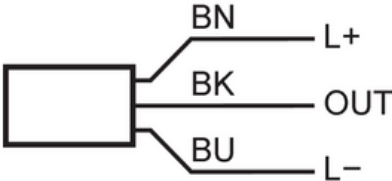
| Mechanical data    |      |                                                                                                                 |
|--------------------|------|-----------------------------------------------------------------------------------------------------------------|
| Weight             | [g]  | 341                                                                                                             |
| Housing            |      | Threaded type                                                                                                   |
| Mounting           |      | flush mountable                                                                                                 |
| Dimensions         | [mm] | M18 x 1 / L = 80                                                                                                |
| Thread designation |      | M18 x 1                                                                                                         |
| Material           |      | housing: brass white bronze coated; sensing face: PBT orange; end cap: PC; lock nuts: brass white bronze coated |

| Displays / operating elements |                  |                 |
|-------------------------------|------------------|-----------------|
| Display                       | Switching status | 1 x LED, yellow |

| Accessories    |  |              |
|----------------|--|--------------|
| Items supplied |  | lock nuts: 2 |

| Remarks       |  |        |
|---------------|--|--------|
| Pack quantity |  | 1 pcs. |

| Electrical connection                          |  |  |
|------------------------------------------------|--|--|
| Cable: 6 m, PUR / PVC; 3 x 0.5 mm <sup>2</sup> |  |  |
| Connection                                     |  |  |



|      |       |
|------|-------|
| BN : | brown |
| BK:  | black |
| BU:  | blue  |

|                                       |     |         |
|---------------------------------------|-----|---------|
| BN                                    | L+  |         |
| BK                                    | OUT | DO (NO) |
| BU                                    | L-  |         |
| DO: digital output; NO: normally open |     |         |