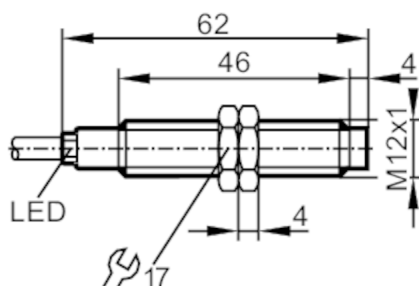


## Inductive sensor

IFK2004-ARKG/PH



## Product characteristics

|                    |               |
|--------------------|---------------|
| Electrical design  | PNP/NPN       |
| Output function    | normally open |
| Sensing range [mm] | 4             |
| Housing            | threaded type |
| Dimensions [mm]    | M12 x 1       |

## Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...55 DC |
| Protection class            | II         |
| Reverse polarity protection | yes        |

## Outputs

|                                                      |               |
|------------------------------------------------------|---------------|
| Electrical design                                    | PNP/NPN       |
| Output function                                      | normally open |
| Max. voltage drop switching output DC [V]            | 4.6           |
| Max. leakage current [mA]                            | 0.8           |
| Permanent current rating of switching output DC [mA] | 400           |
| Switching frequency DC [Hz]                          | 1400          |
| Short-circuit protection                             | yes           |
| Type of short-circuit protection                     | pulsed        |
| Overload protection                                  | yes           |

## Detection zone

|                               |               |
|-------------------------------|---------------|
| Sensing range [mm]            | 4             |
| Real sensing range $S_r$ [mm] | $4 \pm 10 \%$ |
| Operating distance [mm]       | 0...3.25      |

## Accuracy / deviations

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

## Operating conditions

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

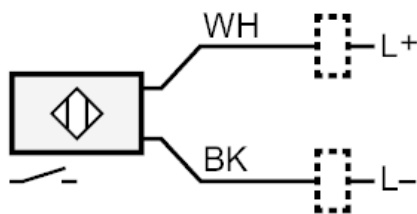
# IF5804



## Inductive sensor

IFK2004-ARKG/PH

| Tests / approvals                         |                  |                                |
|-------------------------------------------|------------------|--------------------------------|
| EMC                                       | EN 60947-5-2     |                                |
|                                           | EN 55011         | class B                        |
| MTTF                                      | [years]          | 1704                           |
| Mechanical data                           |                  |                                |
| Weight                                    | [g]              | 87.4                           |
| Housing                                   |                  | threaded type                  |
| Mounting                                  |                  | non-flush mountable            |
| Dimensions                                | [mm]             | M12 x 1                        |
| Thread designation                        |                  | M12 x 1                        |
| Materials                                 |                  | brass white bronze coated; PBT |
| 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; 2 x 0.34 mm <sup>2</sup> |                  |                                |
| Connection                                |                  |                                |



BK = Core colours :  
WH = black  
white