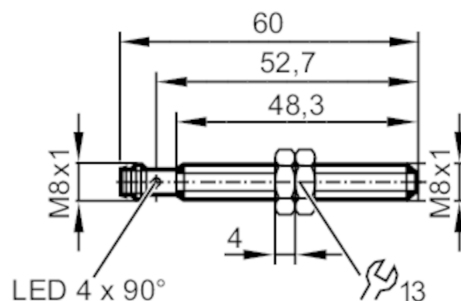


# IE5390



## Inductive sensor

IEK31,5-BPKG/V4A/K1/AS



### Product characteristics

|                    |                 |
|--------------------|-----------------|
| Electrical design  | PNP             |
| Output function    | normally open   |
| Sensing range [mm] | 1.5             |
| Housing            | threaded type   |
| Dimensions [mm]    | M8 x 1 / L = 60 |

### Application

|                                   |                                                                      |
|-----------------------------------|----------------------------------------------------------------------|
| Special feature                   | Gold-plated contacts; Correction factor K = 1; Magnetic-field immune |
| Magnetic-field immune             | yes                                                                  |
| Max. magnetic field immunity [mT] | 300                                                                  |

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...30 DC |
| Current consumption [mA]    | < 20       |
| 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]                          | 1000          |
| Short-circuit protection                             | yes           |
| Overload protection                                  | yes           |

### Detection zone

|                               |                |
|-------------------------------|----------------|
| Sensing range [mm]            | 1.5            |
| Real sensing range $S_r$ [mm] | $1.5 \pm 10\%$ |
| Operating distance [mm]       | 0...1.2        |

### Accuracy / deviations

|                   |                                                                     |
|-------------------|---------------------------------------------------------------------|
| Correction factor | steel: 1 / stainless steel: 1 / brass: 1 / aluminium: 1 / copper: 1 |
| Hysteresis [X01]  | 1...20                                                              |

# IE5390



## Inductive sensor

IEK31,5-BPKG/V4A/K1/AS

|                         |       |          |
|-------------------------|-------|----------|
| Switch point drift      | [X01] | -10...10 |
| Correction factor K = 1 |       | yes      |

### Operating conditions

|                     |      |                                                 |
|---------------------|------|-------------------------------------------------|
| Ambient temperature | [°C] | -25...70                                        |
| Protection          |      | IP 65; IP 67; (with ifm socket duly screwed on) |

### 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                       | [ANN]                     | 544               |
| Embedded software included |                           | yes               |

### Mechanical data

|                    |      |                                                                               |
|--------------------|------|-------------------------------------------------------------------------------|
| Weight             | [g]  | 22                                                                            |
| Housing            |      | threaded type                                                                 |
| Mounting           |      | flush mountable                                                               |
| Dimensions         | [mm] | M8 x 1 / L = 60                                                               |
| Thread designation |      | M8 x 1                                                                        |
| Materials          |      | housing: stainless steel (1.4404 / 316L); sensing face: LCP; lock nuts: brass |

### Displays / operating elements

|         |                  |                     |
|---------|------------------|---------------------|
| Display | switching status | 4 x 90° LED, yellow |
|---------|------------------|---------------------|

### Аксессуары

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

### Remarks

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

### Electrical connection - plug

Connector: 1 x M8; coding: A; Locking: snap-fit ; Contacts: gold-plated



# IE5390



## Inductive sensor

IEK31,5-BPKG/V4A/K1/AS

### Connection

