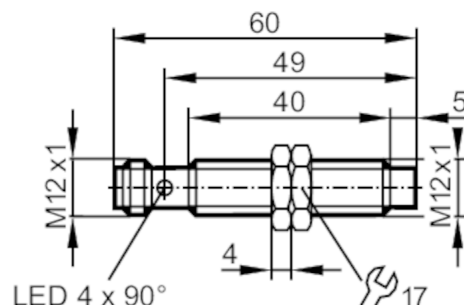


Inductive sensor

IFK3007-APKG/US-104



Product characteristics

| | |
|--------------------|------------------|
| Electrical design | PNP |
| Output function | normally closed |
| Sensing range [mm] | 7 |
| Housing | threaded type |
| Dimensions [mm] | M12 x 1 / L = 60 |

Application

| | |
|-----------------|---|
| Special feature | Gold-plated contacts; Increased sensing range |
|-----------------|---|

Electrical data

| | |
|-----------------------------|------------|
| Operating voltage [V] | 10...30 DC |
| Current consumption [mA] | < 10 |
| Protection class | II |
| Reverse polarity protection | yes |

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] | 200 |
| Switching frequency DC [Hz] | 800 |
| Short-circuit protection | yes |
| Overload protection | yes |

Detection zone

| | |
|-------------------------------|---------------|
| Sensing range [mm] | 7 |
| Real sensing range S_r [mm] | $7 \pm 10 \%$ |
| Operating distance [mm] | 0...5.67 |
| Increased sensing range | yes |

Accuracy / deviations

| | |
|----------------------------------|---|
| Correction factor | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 |
| Hysteresis [% of S_r] | 3...15 |
| Switch point drift [% of S_r] | -10...10 |

IF5958



Inductive sensor

IFK3007-APKG/US-104

Operating conditions

| | | |
|---------------------|------|----------|
| Ambient temperature | [°C] | -25...70 |
| Protection | | IP 67 |

Tests / approvals

| | | |
|----------------------------|--------------|---------|
| EMC | EN 60947-5-2 | |
| | EN 55011 | class B |
| MTTF | [years] | 1083 |
| Embedded software included | | no |

Mechanical data

| | | |
|--------------------|------|--|
| Weight | [g] | 27.5 |
| Housing | | threaded type |
| Mounting | | non-flush mountable |
| Dimensions | [mm] | M12 x 1 / L = 60 |
| Thread designation | | M12 x 1 |
| Materials | | housing: brass white bronze coated; sensing face: PBT orange; LED window: PEI; lock nuts: brass white bronze coated |

Displays / operating elements

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

Accessories

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

Remarks

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

Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection

