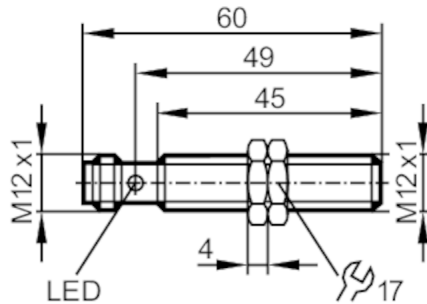


IF5505



Inductive sensor

IFK3002-ANKG/US-100



Product characteristics

| | |
|--------------------|------------------|
| Electrical design | NPN |
| Output function | normally open |
| Sensing range [mm] | 2 |
| Housing | threaded type |
| Dimensions [mm] | M12 x 1 / L = 60 |

Application

| | |
|-----------------|----------------------|
| Special feature | Gold-plated contacts |
|-----------------|----------------------|

Electrical data

| | |
|-----------------------------|------------|
| Operating voltage [V] | 10...30 DC |
| Current consumption [mA] | < 10 |
| Protection class | III |
| Reverse polarity protection | no |

Outputs

| | |
|--|---------------|
| Electrical design | NPN |
| Output function | normally open |
| Max. voltage drop switching output DC [V] | 1 |
| Permanent current rating of switching output DC [mA] | 200 |
| Switching frequency DC [Hz] | 700 |
| Short-circuit protection | yes |
| Overload protection | yes |

Detection zone

| | |
|-------------------------------|--------------|
| Sensing range [mm] | 2 |
| Real sensing range S_r [mm] | $2 \pm 10\%$ |
| Operating distance [mm] | 0...1.62 |

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 |

IF5505



Inductive sensor

IFK3002-ANKG/US-100

| Operating conditions | |
|----------------------------|---|
| Ambient temperature [°C] | -25...80 |
| Protection | IP 67 |
| Tests / approvals | |
| EMC | EN 60947-5-2 |
| | EN 55011 class B |
| MTTF [years] | 1646 |
| Embedded software included | yes |
| Mechanical data | |
| Weight [g] | 27.9 |
| Housing | threaded type |
| Mounting | flush mountable |
| Dimensions [mm] | M12 x 1 / L = 60 |
| Thread designation | M12 x 1 |
| Materials | brass white bronze coated; sensing face: PBT orange; lock nuts: brass white bronze coated |
| Accessories | |
| Items supplied | lock nuts: 2 |
| Remarks | |
| Pack quantity | 1 pcs. |

Electrical connection - plug

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



Connection

