

IFS206



Inductive sensor

IFB3004BAPKG/US-104



| Product characteristics | | |
|---|-----------|---|
| Electrical design | | PNP |
| Output function | | normally closed |
| Sensing range | [mm] | 4 |
| Housing | | threaded type |
| Dimensions | [mm] | M12 x 1 / L = 45 |
| Application | | |
| Special feature | | Gold-plated contacts; Increased sensing range |
| Application | | Industrial applications / factory automation |
| 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] | 100 |
| Switching frequency DC | [Hz] | 700 |
| Short-circuit protection | | yes |
| Overload protection | | yes |
| Detection zone | | |
| Sensing range | [mm] | 4 |
| Real sensing range Sr | [mm] | 4 ± 10 % |
| Operating distance | [mm] | 0...3.25 |
| 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 Sr] | 3...15 |

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| | | |
|--------------------|-----------|----------|
| Switch point drift | [% of Sr] | -10...10 |
|--------------------|-----------|----------|

Operating conditions

| | | |
|---------------------|------|----------|
| Ambient temperature | [°C] | -25...70 |
|---------------------|------|----------|

| | | |
|------------|--|-------|
| Protection | | IP 67 |
|------------|--|-------|

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] | 1134 |
|------|---------|------|

| | | |
|----------------------------|--|-----|
| Embedded software included | | yes |
|----------------------------|--|-----|

| | | |
|-------------|-----------------|-------------------|
| UL approval | Ta | 0...40 °C |
| | Enclosure type | Type 1 |
| | power supply | Hazardous voltage |
| | UL approval no. | A003 |
| | File number UL | E174191 |

Mechanical data

| | | |
|--------|-----|----|
| Weight | [g] | 26 |
|--------|-----|----|

| | | |
|---------|--|---------------|
| Housing | | threaded type |
|---------|--|---------------|

| | | |
|----------|--|-----------------|
| Mounting | | flush mountable |
|----------|--|-----------------|

| | | |
|------------|------|------------------|
| Dimensions | [mm] | M12 x 1 / L = 45 |
|------------|------|------------------|

| | | |
|--------------------|--|---------|
| Thread designation | | M12 x 1 |
|--------------------|--|---------|

| | | |
|-----------|--|---|
| Materials | | housing: brass white bronze coated; LED window: PEI; lock nuts: brass white bronze coated; sensing face: PBT orange |
|-----------|--|---|

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



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Connection

