

IM5037



Inductive sensor

IME2015BFRKG



Product characteristics

| | | |
|-------------------|------|---|
| Electrical design | | PNP/NPN |
| Output function | | normally open / normally closed; (selectable) |
| Sensing range | [mm] | 15 |
| Housing | | rectangular |
| Dimensions | [mm] | 40 x 40 x 120 |

Electrical data

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

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| Outputs | | |
|--|---|-----------------|
| Electrical design | PNP/NPN | |
| Output function | normally open / normally closed; (selectable) | |
| Max. voltage drop switching output DC [V] | 4.6 | |
| Minimum load current [mA] | 4 | |
| Max. leakage current [mA] | 1 | |
| Permanent current rating of switching output DC [mA] | 400 | |
| Switching frequency DC [Hz] | 250 | |
| Short-circuit protection | yes | |
| Type of short-circuit protection | pulsed | |
| Overload protection | yes | |
| Detection zone | | |
| Sensing range [mm] | 15 | |
| Real sensing range Sr [mm] | 15 ± 10 % | |
| Operating distance [mm] | 0...12.1 | |
| Accuracy / deviations | | |
| Correction factor | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2 | |
| Hysteresis [% of Sr] | 1...15 | |
| Switch point drift [% of Sr] | -10...10 | |
| Operating conditions | | |
| Ambient temperature [°C] | -25...80 | |
| Protection | IP 65 | |
| Tests / approvals | | |
| EMC | EN 60947-5-2 | |
| MTTF [years] | 1635 | |
| Mechanical data | | |
| Weight [g] | 189 | |
| Housing | rectangular | |
| Mounting | flush mountable | |
| Dimensions [mm] | 40 x 40 x 120 | |
| Materials | PPE | |
| Displays / operating elements | | |
| Display | switching status | 1 x LED, yellow |
| Remarks | | |
| Remarks | 5 positions of the active zone possible | |
| Pack quantity | 1 pcs. | |

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Electrical connection

terminals: ...2.5 mm²; Cable sheath: Ø 7...13 mm; Cable gland: M20 X 1.5

Connection

