

# IM5126



## Inductive sensor

IMC4040UCPKG/K1/SC/US-100-DPA



- 1 LED yellow
- 2 LED green



### Product characteristics

|                    |               |
|--------------------|---------------|
| Electrical design  | PNP           |
| Output function    | complementary |
| Sensing range [mm] | 40            |
| Housing            | rectangular   |
| Dimensions [mm]    | 40 x 40 x 54  |

### Application

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

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...36 DC |
| Current consumption [mA]    | < 20       |
| Protection class            | II         |
| Reverse polarity protection | yes        |



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| Outputs                                              |                                                                                                                                    |                                |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Electrical design                                    |                                                                                                                                    | PNP                            |
| Output function                                      |                                                                                                                                    | complementary                  |
| Max. voltage drop switching output DC [V]            |                                                                                                                                    | 2.5                            |
| Max. leakage current [mA]                            |                                                                                                                                    | 0.1                            |
| Permanent current rating of switching output DC [mA] |                                                                                                                                    | 200                            |
| Switching frequency DC [Hz]                          |                                                                                                                                    | 200                            |
| Short-circuit protection                             |                                                                                                                                    | yes                            |
| Type of short-circuit protection                     |                                                                                                                                    | pulsed                         |
| Overload protection                                  |                                                                                                                                    | yes                            |
| Detection zone                                       |                                                                                                                                    |                                |
| Sensing range [mm]                                   |                                                                                                                                    | 40                             |
| Real sensing range Sr [mm]                           |                                                                                                                                    | 40 ± 10 %                      |
| Operating distance [mm]                              |                                                                                                                                    | 0...32.4                       |
| Accuracy / deviations                                |                                                                                                                                    |                                |
| Correction factor                                    | steel: 1 / stainless steel: 1 / brass: 1 / aluminium: 1 / copper: 1                                                                |                                |
| Hysteresis [X01]                                     | 1...20                                                                                                                             |                                |
| Switch point drift [X01]                             | -10...10                                                                                                                           |                                |
| Correction factor K = 1                              | yes                                                                                                                                |                                |
| Operating conditions                                 |                                                                                                                                    |                                |
| Ambient temperature [°C]                             | -25...70                                                                                                                           |                                |
| Protection                                           | IP 67                                                                                                                              |                                |
| Tests / approvals                                    |                                                                                                                                    |                                |
| EMC                                                  | EN 61000-4-2 ESD                                                                                                                   | 8 kV CD / 6 kV AD              |
|                                                      | EN 61000-4-3 HF radiated                                                                                                           | 10 V/m                         |
|                                                      | EN 61000-4-4 Burst                                                                                                                 | 2 kV                           |
|                                                      | EN 61000-4-5 Surge                                                                                                                 | 0,5 kV line to line, Ri: 2 Ohm |
|                                                      | EN 61000-4-6 HF conducted                                                                                                          | 10 V                           |
|                                                      | EN 55011                                                                                                                           | class B                        |
| MTTF [ANN]                                           | 972                                                                                                                                |                                |
| UL approval                                          | Ta                                                                                                                                 | -25...70 °C                    |
|                                                      | Enclosure type                                                                                                                     | Type 1                         |
|                                                      | подача напруги                                                                                                                     | Class 2                        |
|                                                      | File number UL                                                                                                                     | E174191                        |
| Mechanical data                                      |                                                                                                                                    |                                |
| Weight [g]                                           | 134                                                                                                                                |                                |
| Housing                                              | rectangular                                                                                                                        |                                |
| Sensing face                                         | 5 positions selectable                                                                                                             |                                |
| Mounting                                             | non-flush mountable                                                                                                                |                                |
| Dimensions [mm]                                      | 40 x 40 x 54                                                                                                                       |                                |
| Materials                                            | housing: PA anti-spatter; sensing face: PA black anti-spatter; end cap: PA; clamp: orange; screw: stainless steel (1.4567 / 304Cu) |                                |

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### Displays / operating elements

|         |                  |                 |
|---------|------------------|-----------------|
| Display | switching status | 1 x LED, yellow |
|         | operation        | 1 x LED, green  |

### Remarks

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

### Electrical connection - plug

Connector: 1 x M12; coding: A; Locking: locking, rotatable, stainless steel (1.4404 / 316L)



### Connection

