

# IM5135



## Inductive sensor

IMC4040-CPKG/K1/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

|                                          |                                              |
|------------------------------------------|----------------------------------------------|
| System                                   | correction factor = 1; Magnetic-field immune |
| Magnetic-field immune                    | yes                                          |
| Max. electromagnetic field immunity [mT] | 300                                          |

### Electrical data

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

### Outputs

|                   |     |
|-------------------|-----|
| Electrical design | PNP |
|-------------------|-----|



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|                                                 |      |                    |
|-------------------------------------------------|------|--------------------|
| 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                |      | yes (non-latching) |
| Overload protection                             |      | yes                |

| Monitoring range      |      |           |
|-----------------------|------|-----------|
| 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 / aluminum: 1 / copper: 1 |
| Hysteresis            | [% of Sr] | 1...20                                                             |
| Switch-point drift    | [% of Sr] | -10...10                                                           |
| Correction factor = 1 |           | yes                                                                |

| Operating conditions |      |               |
|----------------------|------|---------------|
| Ambient temperature  | [°C] | -25...70      |
| Protection           |      | IP 67; IP 69K |

| 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              | [years]                   | 972                            |
| UL approval       | Ta                        | -25...70 °C                    |
|                   | Enclosure type            | Type 1                         |
|                   | voltage supply            | 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                                                                                                           |
| Material        |      | housing: PA; sensing face: PA black; bevelled housing part: PA; clamp: orange; screw: stainless steel (1.4567 / 304Cu) |

| Displays / operating elements |                  |                 |
|-------------------------------|------------------|-----------------|
| Display                       | Switching status | 1 x LED, yellow |
|                               | Power            | 1 x LED, green  |

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## Inductive sensor

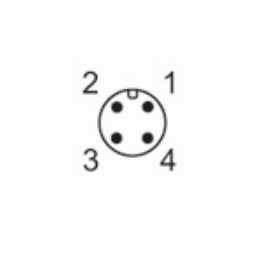
IMC4040-CPKG/K1/US-100-DPA

### Remarks

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

### Electrical connection - plug

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



### Connection

