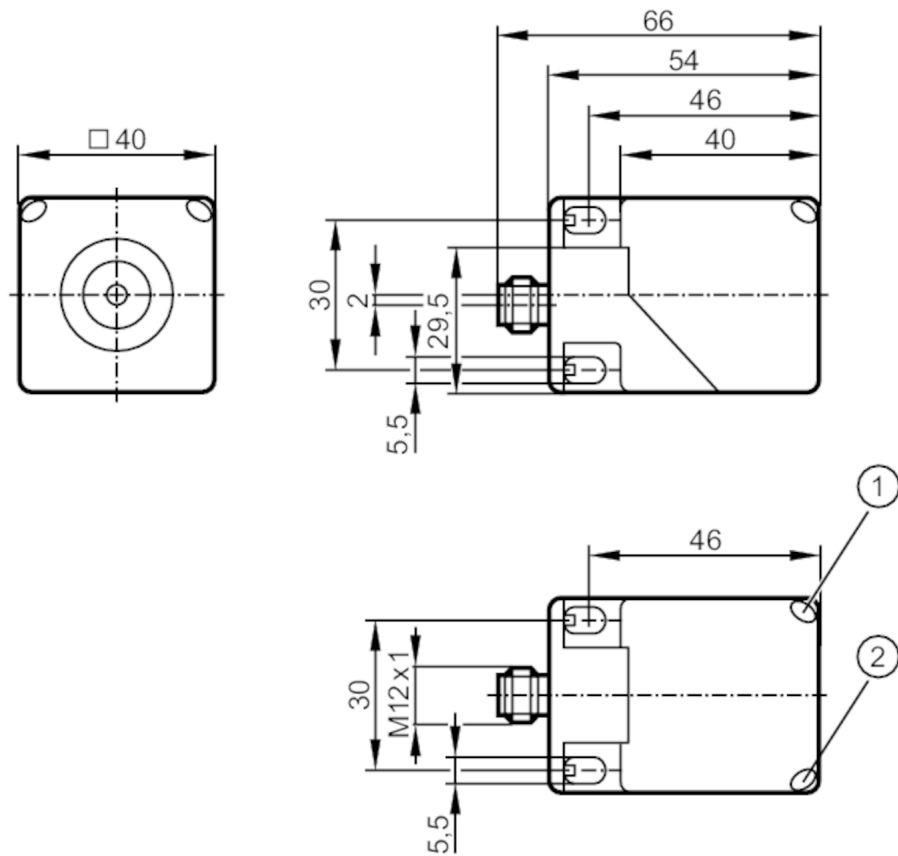


# IM5131



## Inductive sensor

IMC3040-BPKG/K1/US-100-DPS



- 1 LED yellow
- 2 LED green



| Product characteristics           |                                                |
|-----------------------------------|------------------------------------------------|
| Electrical design                 | PNP                                            |
| Output function                   | normally open                                  |
| Sensing range [mm]                | 40                                             |
| Housing                           | rectangular                                    |
| Dimensions [mm]                   | 40 x 40 x 54                                   |
| Application                       |                                                |
| Special feature                   | Correction factor K = 1; Magnetic-field immune |
| 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                                            |
| Outputs                           |                                                |
| Electrical design                 | PNP                                            |
| Output function                   | normally open                                  |



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|                                                 |      |        |
|-------------------------------------------------|------|--------|
| Max. voltage drop switching output DC           | [V]  | 2.5    |
| 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              | [% of Sr] | 1...20                                                              |
| Switch point drift      | [% of Sr] | -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              | [years]                   | 1161                           |
| UL approval       | Ta                        | -25...70 °C                    |
|                   | Enclosure type            | Type 1                         |
|                   | power supply              | Class 2                        |
|                   | File number UL            | E174191                        |

| Mechanical data |      |                                                                                                             |
|-----------------|------|-------------------------------------------------------------------------------------------------------------|
| Weight          | [g]  | 132.5                                                                                                       |
| Housing         |      | rectangular                                                                                                 |
| Sensing face    |      | 5 positions selectable                                                                                      |
| Mounting        |      | non-flush mountable                                                                                         |
| Dimensions      | [mm] | 40 x 40 x 54                                                                                                |
| Materials       |      | housing: PA; sensing face: PA black; end cap: PA;<br>clamp: orange; screw: stainless steel (1.4567 / 304Cu) |

| Displays / operating elements |                  |                 |
|-------------------------------|------------------|-----------------|
| Display                       | switching status | 1 x LED, yellow |
|                               | operation        | 1 x LED, green  |

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

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### Electrical connection - plug

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



### Connection

