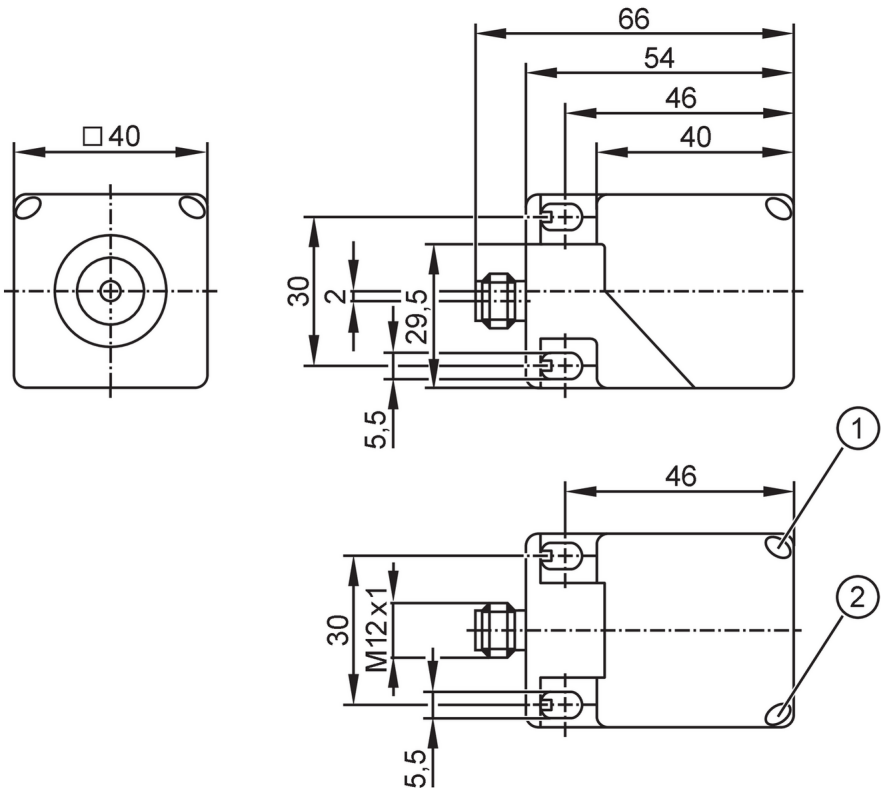


# IM5128



## Inductive sensor

IMC3020BBPKG/K1/US-100-DPS



- 1 LED yellow
- 2 LED green



| Product characteristics               |      |                                              |
|---------------------------------------|------|----------------------------------------------|
| Electrical design                     |      | PNP                                          |
| Output function                       |      | normally open                                |
| Sensing range                         | [mm] | 20                                           |
| Housing                               |      | rectangular                                  |
| Dimensions                            | [mm] | 40 x 40 x 54                                 |
| Application                           |      |                                              |
| Special feature                       |      | 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                                          |
| Output function                       |      | normally open                                |
| Max. voltage drop switching output DC | [V]  | 2.5                                          |

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|                                                 |      |                    |
|-------------------------------------------------|------|--------------------|
| 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] | 20        |
| Real sensing range Sr | [mm] | 20 ± 10 % |
| Operating distance    | [mm] | 0...16.2  |

| 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    |

| 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]                   | 1165                           |
| UL approval       | Ta                        | -25...70 °C                    |
|                   | Enclosure type            | Type 1                         |
|                   | voltage supply            | Class 2                        |
|                   | File number UL            | E174191                        |

| Mechanical data |      |                                                                                                                        |
|-----------------|------|------------------------------------------------------------------------------------------------------------------------|
| Weight          | [g]  | 140.5                                                                                                                  |
| Housing         |      | rectangular                                                                                                            |
| Sensing face    |      | 5 positions selectable                                                                                                 |
| Mounting        |      | 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  |

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

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### Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: 4; Locking: locking, rotatable, stainless steel (1.4404 / 316L)



### Connection

