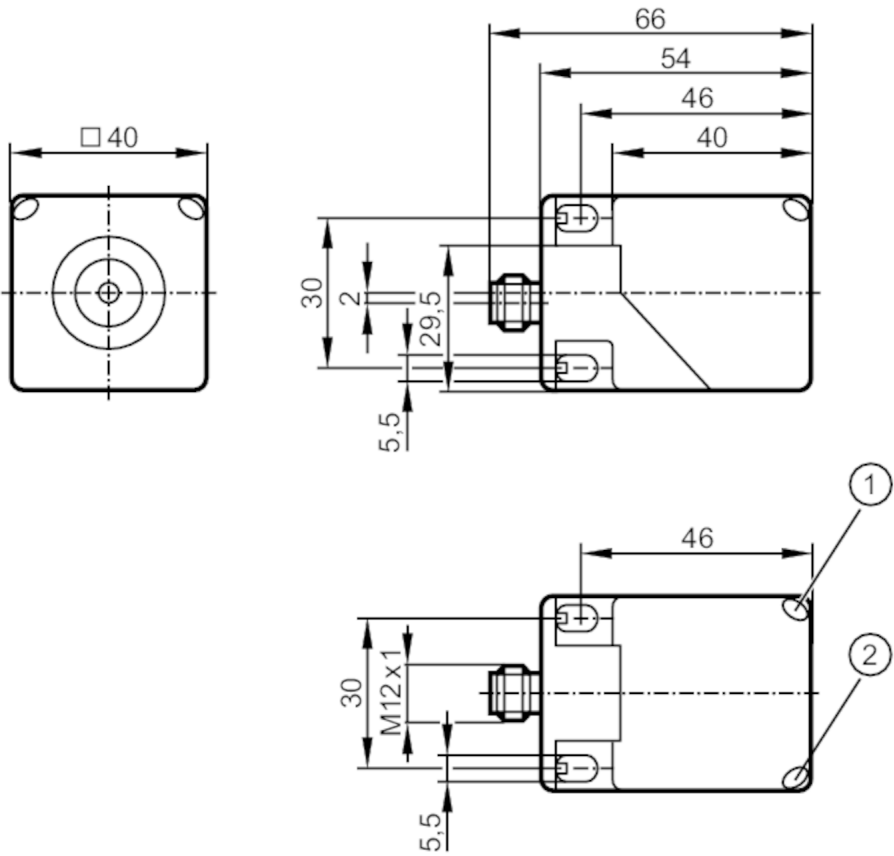


# IM5115



## Inductive sensor

IMC3020BBPKG/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

|        |                      |
|--------|----------------------|
| System | gold-plated contacts |
|--------|----------------------|

### 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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IMC3020BBPKG/US-100-DPS

|                                                 |      |                    |
|-------------------------------------------------|------|--------------------|
| Max. leakage current                            | [mA] | 0.1                |
| Permanent current rating of switching output DC | [mA] | 200                |
| Switching frequency DC                          | [Hz] | 100                |
| 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: 0.7 / brass: 0.4 / aluminum: 0.4 / copper: 0.3 |
| Hysteresis            | [% of Sr] | 1...20                                                                     |
| Switch-point drift    | [% of Sr] | -10...10                                                                   |

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

| Tests / approvals          |                           |                                |
|----------------------------|---------------------------|--------------------------------|
| EMC                        | EN 61000-4-2 ESD          | 8 kV CD / 4 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]                   | 1590                           |
| Embedded software included |                           | no                             |
| UL approval                | Ta                        | -25...70 °C                    |
|                            | Enclosure type            | Type 1                         |
|                            | voltage supply            | Class 2                        |
|                            | File number UL            | E174191                        |

| Mechanical data |      |                                                                                                                        |
|-----------------|------|------------------------------------------------------------------------------------------------------------------------|
| Weight          | [g]  | 146.5                                                                                                                  |
| 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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## Inductive sensor

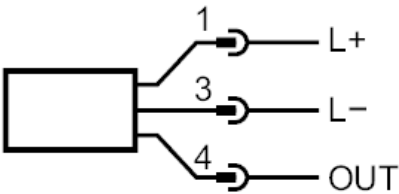
IMC3020BBPKG/US-100-DPS

### Electrical connection - plug

Connector: 1 x M12; coding: A; Locking: locking, rotatable; Contacts: gold-plated



### Connection



|   |     |         |
|---|-----|---------|
| 1 | L+  |         |
| 3 | L-  |         |
| 4 | OUT | DO (NO) |