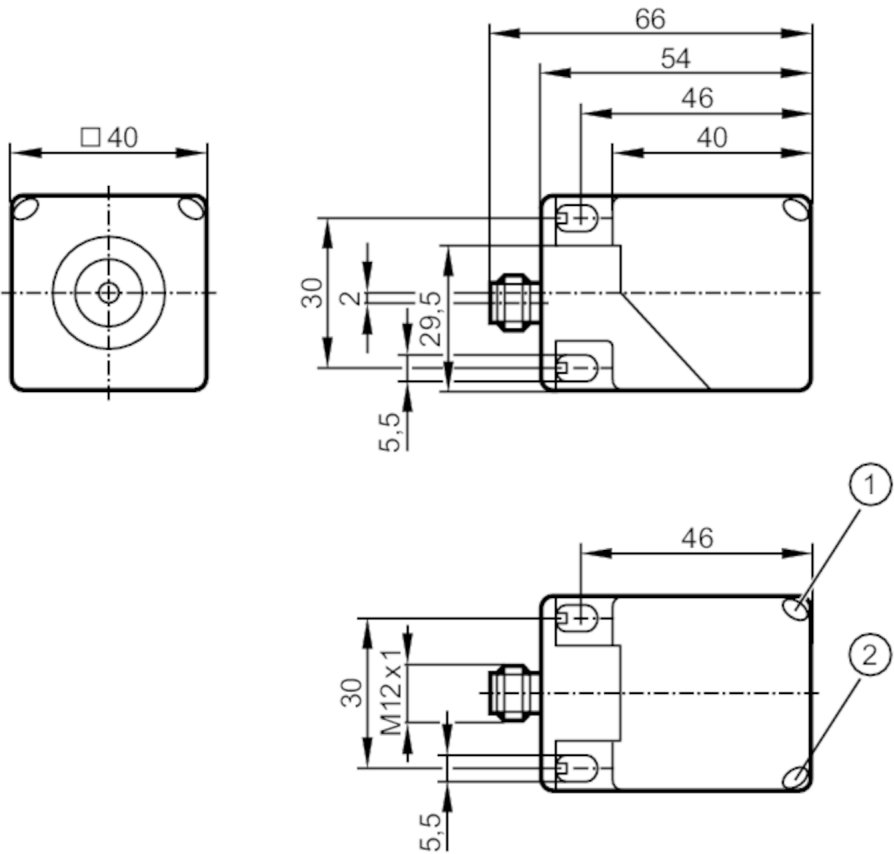


# IM5116



## Inductive sensor

IMC3035-BPKG/US-100-DPS



- 1 LED yellow
- 2 LED green



| Product characteristics                         |      |               |
|-------------------------------------------------|------|---------------|
| Electrical design                               |      | PNP           |
| Output function                                 |      | normally open |
| Sensing range                                   | [mm] | 35            |
| Housing                                         |      | rectangular   |
| Dimensions                                      | [mm] | 40 x 40 x 54  |
| 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           |
| Permanent current rating of switching output DC | [mA] | 200           |
| Switching frequency DC                          | [Hz] | 80            |

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## Inductive sensor

IMC3035-BPKG/US-100-DPS

|                                  |                           |                                                                             |
|----------------------------------|---------------------------|-----------------------------------------------------------------------------|
| Short-circuit protection         |                           | yes                                                                         |
| Type of short-circuit protection |                           | pulsed                                                                      |
| Overload protection              |                           | yes                                                                         |
| Detection zone                   |                           |                                                                             |
| Sensing range                    | [mm]                      | 35                                                                          |
| Real sensing range Sr            | [mm]                      | 35 ± 10 %                                                                   |
| Operating distance               | [mm]                      | 0...28.3                                                                    |
| Accuracy / deviations            |                           |                                                                             |
| Correction factor                |                           | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 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 / 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]                   | 1494                                                                        |
| UL approval                      | Ta                        | -25...70 °C                                                                 |
|                                  | Enclosure type            | Type 1                                                                      |
|                                  | power supply              | Class 2                                                                     |
|                                  | File number UL            | E174191                                                                     |
| Mechanical data                  |                           |                                                                             |
| Weight                           | [g]                       | 152.5                                                                       |
| Housing                          |                           | rectangular                                                                 |
| Sensing face                     |                           | 5 positions selectable                                                      |
| Mounting                         |                           | non-flush mountable                                                         |
| Dimensions                       | [mm]                      | 40 x 40 x 54                                                                |
| Materials                        |                           | PA                                                                          |
| Displays / operating elements    |                           |                                                                             |
| Display                          | switching status          | 1 x LED, yellow                                                             |
|                                  | operation                 | 1 x LED, green                                                              |
| Remarks                          |                           |                                                                             |
| Pack quantity                    | 1 pcs.                    |                                                                             |

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IMC3035-BPKG/US-100-DPS

### Electrical connection - plug

Connector: 1 x M12; coding: A; Locking: locking, rotatable



### Connection

