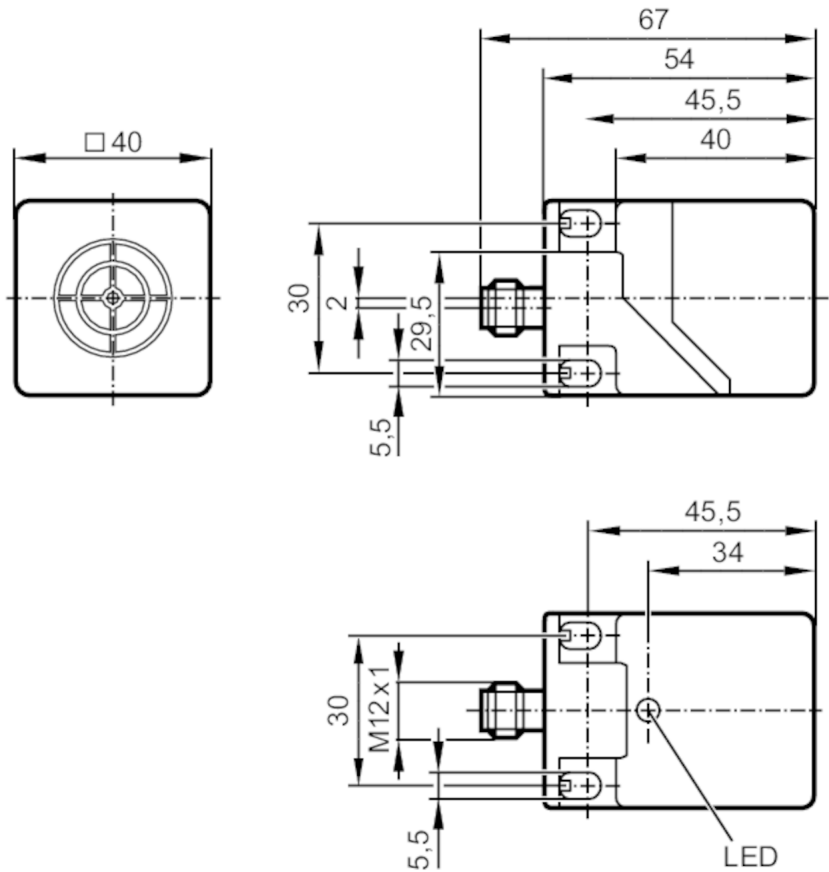


# IM513A



## Inductive sensor

IMC4030-CPKG/US/3D/3G



### Product characteristics

|                    |               |
|--------------------|---------------|
| Electrical design  | PNP           |
| Output function    | complementary |
| Sensing range [mm] | 30            |
| Housing            | rectangular   |
| Dimensions [mm]    | 40 x 40 x 54  |

### Application

|                 |                      |
|-----------------|----------------------|
| Special feature | Gold-plated contacts |
|-----------------|----------------------|

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...30 DC |
| Current consumption [mA]    | < 15       |
| Protection class            | III        |
| Reverse polarity protection | yes        |

### Outputs

|                                           |               |
|-------------------------------------------|---------------|
| Electrical design                         | PNP           |
| Output function                           | complementary |
| Max. voltage drop switching output DC [V] | 2.5           |
| Max. leakage current [mA]                 | 0.1           |

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## Inductive sensor

IMC4030-CPKG/US/3D/3G

|                                                 |      |        |
|-------------------------------------------------|------|--------|
| Permanent current rating of switching output DC | [mA] | 200    |
| Switching frequency DC                          | [Hz] | 100    |
| Short-circuit protection                        |      | yes    |
| Type of short-circuit protection                |      | pulsed |
| Overload protection                             |      | yes    |

| Detection zone        |      |           |
|-----------------------|------|-----------|
| Sensing range         | [mm] | 30        |
| Real sensing range Sr | [mm] | 30 ± 10 % |
| Operating distance    | [mm] | 0...24.3  |

| Accuracy / deviations |       |                                                                             |
|-----------------------|-------|-----------------------------------------------------------------------------|
| Correction factor     |       | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2 |
| Hysteresis            | [X01] | 1...20                                                                      |
| Switch point drift    | [X01] | -10...10                                                                    |

| Operating conditions |      |              |
|----------------------|------|--------------|
| Ambient temperature  | [°C] | -20...60     |
| Protection           |      | IP 65; IP 67 |

| Tests / approvals |       |                                          |
|-------------------|-------|------------------------------------------|
| Approval          |       | BVS 20 ATEX E 057 X; IECEx BVS 20.0044 X |
| ATEX marking      |       | II 3G Ex ec IIC T4 Gc                    |
|                   |       | II 3D Ex tc IIIC T95°C Dc                |
| EMC               |       | EN 60947-5-2                             |
| MTTF              | [ANN] | 1260                                     |

| Mechanical data |      |                     |
|-----------------|------|---------------------|
| Weight          | [g]  | 173                 |
| Housing         |      | rectangular         |
| Mounting        |      | non-flush mountable |
| Dimensions      | [mm] | 40 x 40 x 54        |
| Materials       |      | PC; PA; TPE         |

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

| Remarks       |  |                                                                                                                          |
|---------------|--|--------------------------------------------------------------------------------------------------------------------------|
| Remarks       |  | Recommendation: Check the safe functioning of the unit after a short circuit.<br>5 positions of the active zone possible |
| Pack quantity |  | 1 pcs.                                                                                                                   |

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### Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: gold-plated



### Connection

