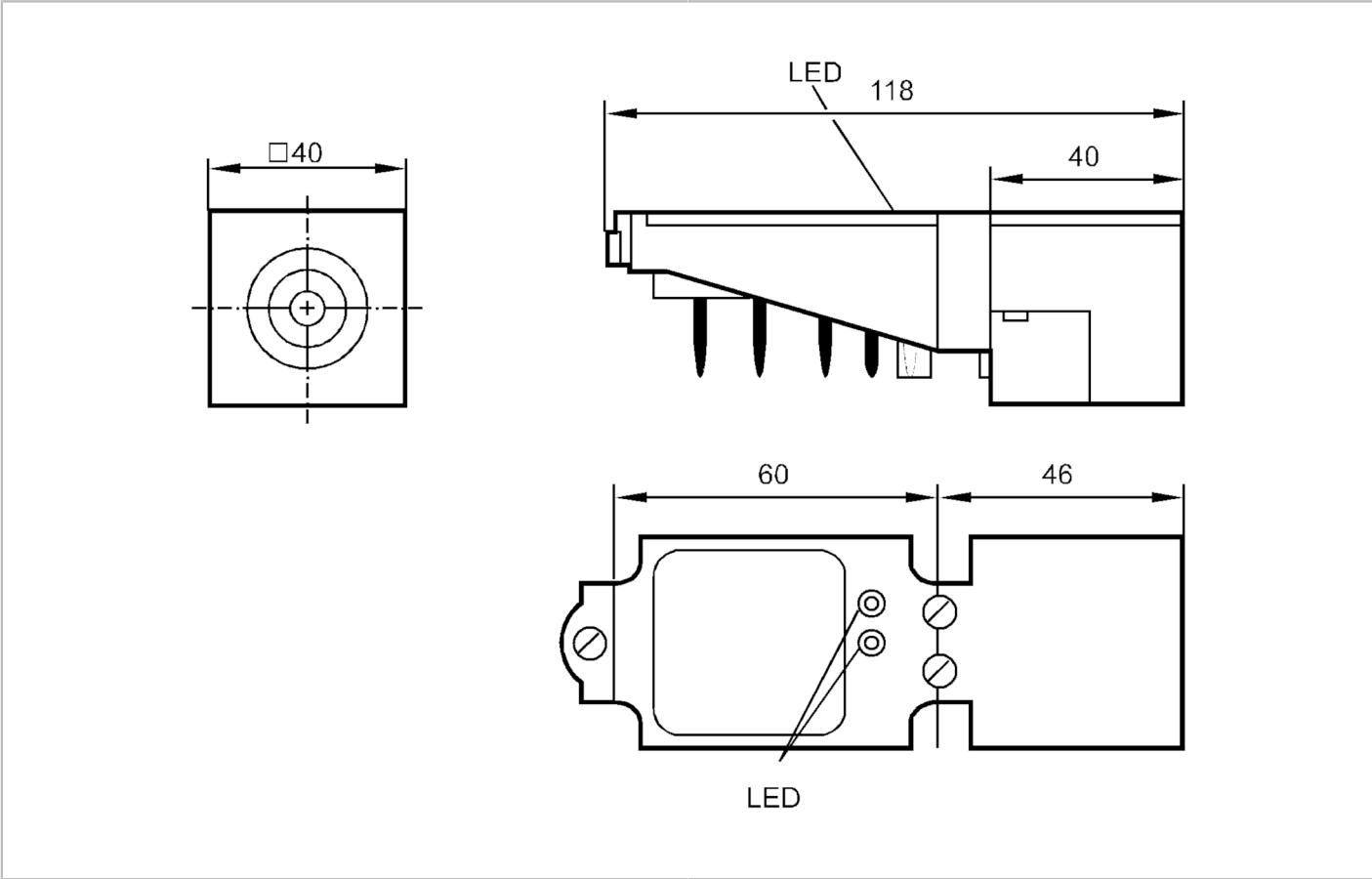




Inductive sensor

IVE4020BCPKG

Article no longer available - archive entry



| Product characteristics                         |      |               |
|-------------------------------------------------|------|---------------|
| Electrical design                               |      | PNP           |
| Output function                                 |      | complementary |
| Sensing range                                   | [mm] | 20            |
| Housing                                         |      | rectangular   |
| Dimensions                                      | [mm] | 40 x 40 x 118 |
| Electrical data                                 |      |               |
| Operating voltage                               | [V]  | 10...60 DC    |
| Current consumption                             | [mA] | 20; (24 V)    |
| Protection class                                |      | II            |
| Reverse polarity protection                     |      | yes           |
| Outputs                                         |      |               |
| Electrical design                               |      | PNP           |
| Output function                                 |      | complementary |
| Max. voltage drop switching output DC           | [V]  | 3             |
| Permanent current rating of switching output DC | [mA] | 200           |
| Switching frequency DC                          | [Hz] | 150           |

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|                                  |                                               |                                                                             |
|----------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------|
| Short-circuit protection         |                                               | yes                                                                         |
| Type of short-circuit protection |                                               | pulsed                                                                      |
| Overload protection              |                                               | yes                                                                         |
| Detection zone                   |                                               |                                                                             |
| 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 / aluminium: 0.3 / copper: 0.2 |
| Hysteresis                       | [% of Sr]                                     | 1...15                                                                      |
| Switch point drift               | [% of Sr]                                     | -10...10                                                                    |
| Operating conditions             |                                               |                                                                             |
| Ambient temperature              | [°C]                                          | -25...70                                                                    |
| Protection                       |                                               | IP 67                                                                       |
| Tests / approvals                |                                               |                                                                             |
| EMC                              | EN 60947-5-2                                  |                                                                             |
|                                  | EN 55011                                      | class B                                                                     |
| Mechanical data                  |                                               |                                                                             |
| Housing                          |                                               | rectangular                                                                 |
| Mounting                         |                                               | flush mountable                                                             |
| Type of mounting                 |                                               | for mounting base; (E10228)                                                 |
| Dimensions                       | [mm]                                          | 40 x 40 x 118                                                               |
| Materials                        |                                               | PBT                                                                         |
| Displays / operating elements    |                                               |                                                                             |
| Display                          | switching status                              | 1 x LED, yellow                                                             |
|                                  | operation                                     | 1 x LED, green                                                              |
| Remarks                          |                                               |                                                                             |
| Remarks                          | 5 positions of the active zone possible       |                                                                             |
|                                  | Cable gland (E11270) to be ordered separately |                                                                             |
| Pack quantity                    | 1 pcs.                                        |                                                                             |

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### Electrical connection

Mounting base: ...2.5 mm<sup>2</sup>

### Connection

