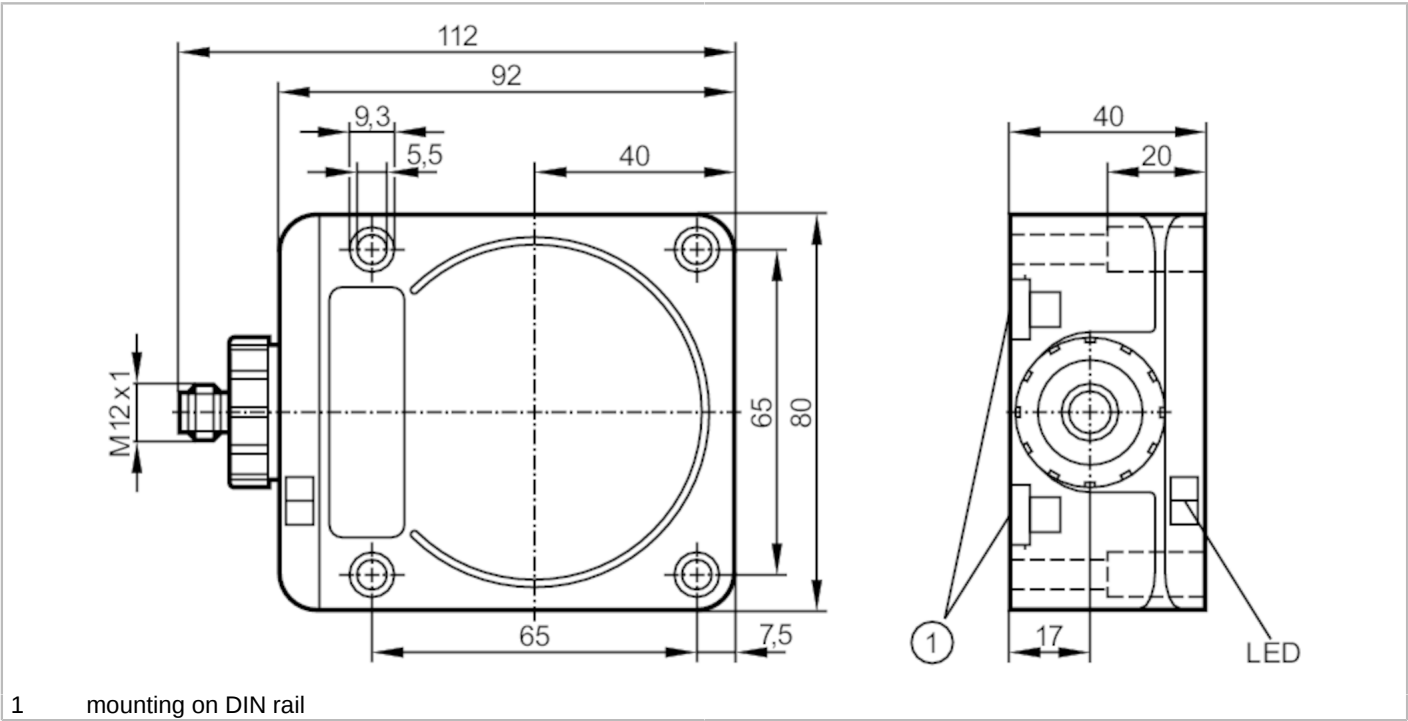




Inductive sensor

IDC4050UCPKG/SC/2LED/US-100DPA



| Product characteristics                         |      |               |
|-------------------------------------------------|------|---------------|
| Electrical design                               |      | PNP           |
| Output function                                 |      | complementary |
| Sensing range                                   | [mm] | 50            |
| Housing                                         |      | rectangular   |
| Dimensions                                      | [mm] | 92 x 80 x 40  |
| Application                                     |      |               |
| Special feature                                 |      | anti-spatter  |
| Electrical data                                 |      |               |
| Operating voltage                               | [V]  | 10...36 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]  | 2.5           |
| Permanent current rating of switching output DC | [mA] | 250           |
| Switching frequency DC                          | [Hz] | 70            |
| Short-circuit protection                        |      | yes           |
| Type of short-circuit protection                |      | pulsed        |
| Overload protection                             |      | yes           |



## Inductive sensor

IDC4050UCPKG/SC/2LED/US-100DPA

| Detection zone                                                                      |                  |                                                                                 |
|-------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------|
| Sensing range                                                                       | [mm]             | 50                                                                              |
| Operating distance                                                                  | [mm]             | 0...40.5; (mounted flush with mild steel (ST37))                                |
| Accuracy / deviations                                                               |                  |                                                                                 |
| Correction factor                                                                   |                  | steel: 1 / stainless steel: 0.85 / brass: 0.48 / aluminium: 0.46 / copper: 0.38 |
| Hysteresis                                                                          | [% of Sr]        | 3...20                                                                          |
| Switch point drift                                                                  | [% of Sr]        | -15...15                                                                        |
| Operating conditions                                                                |                  |                                                                                 |
| Ambient temperature                                                                 | [°C]             | -25...70                                                                        |
| Protection                                                                          |                  | IP 67                                                                           |
| Tests / approvals                                                                   |                  |                                                                                 |
| EMC                                                                                 |                  | EN 60947-5-2                                                                    |
| MTTF                                                                                | [years]          | 1162                                                                            |
| UL approval                                                                         | Ta               | -25...70 °C                                                                     |
|                                                                                     | Enclosure type   | Type 1                                                                          |
|                                                                                     | power supply     | Class 2                                                                         |
|                                                                                     | File number UL   | E174191                                                                         |
| Mechanical data                                                                     |                  |                                                                                 |
| Weight                                                                              | [g]              | 422.5                                                                           |
| Housing                                                                             |                  | rectangular                                                                     |
| Mounting                                                                            |                  | flush mountable                                                                 |
| Type of mounting                                                                    |                  | rail; (TH35 (EN 60715))                                                         |
| Dimensions                                                                          | [mm]             | 92 x 80 x 40                                                                    |
| Materials                                                                           |                  | PPE anti-spatter; brass white bronze coated; diecast zinc                       |
| Displays / operating elements                                                       |                  |                                                                                 |
| Display                                                                             | switching status | 1 x LED, yellow                                                                 |
|                                                                                     | operation        | 1 x LED, green                                                                  |
| Accessories                                                                         |                  |                                                                                 |
| Items supplied                                                                      |                  | sealing plug: 1                                                                 |
| Remarks                                                                             |                  |                                                                                 |
| Pack quantity                                                                       |                  | 1 pcs.                                                                          |
| Electrical connection - plug                                                        |                  |                                                                                 |
| Connector: 1 x M12; coding: A                                                       |                  |                                                                                 |
|  |                  |                                                                                 |



## Inductive sensor

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### Connection

