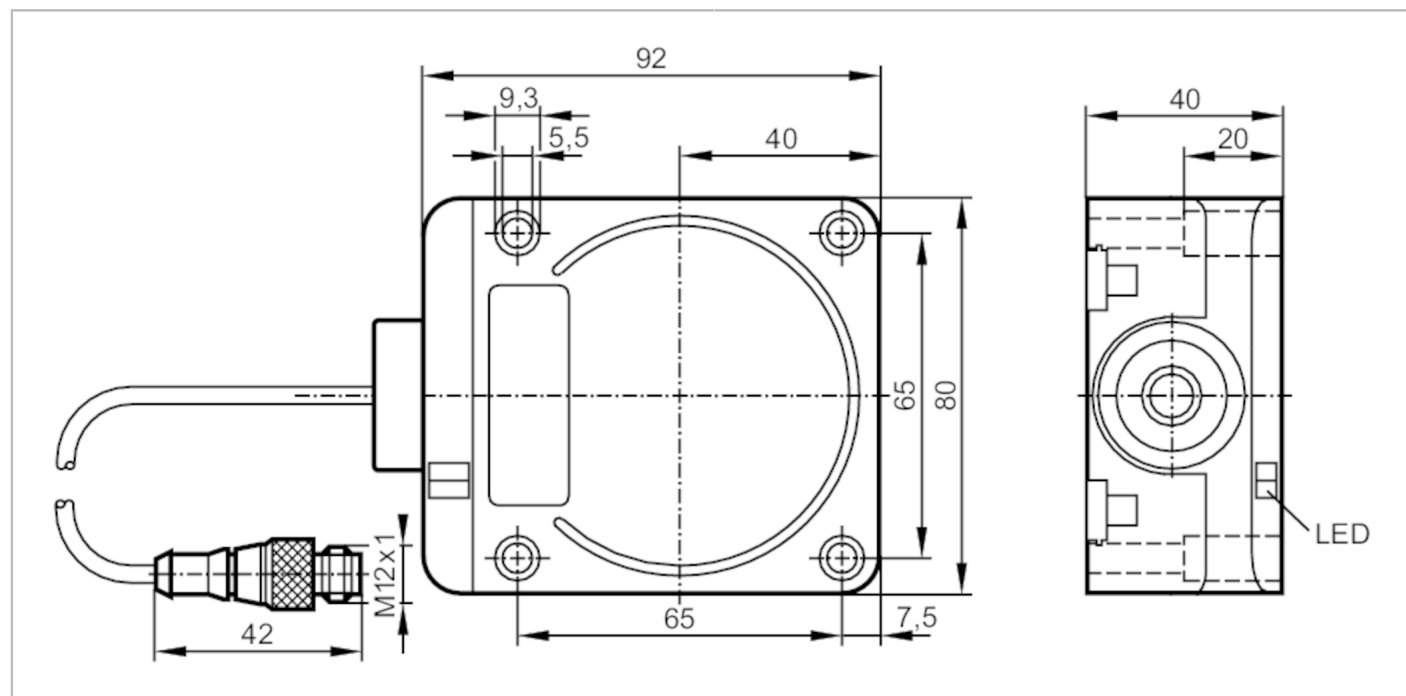


# ID9920



## Inductive sensor

IDC2050BARKG/UP/0,80M/PUR/USRT



### Product characteristics

|                    |               |
|--------------------|---------------|
| Electrical design  | PNP/NPN       |
| Output function    | normally open |
| Sensing range [mm] | 50            |
| Housing            | rectangular   |
| Dimensions [mm]    | 92 x 80 x 40  |

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...55 DC |
| Protection class            | II         |
| Reverse polarity protection | yes        |

### Outputs

|                                                      |               |
|------------------------------------------------------|---------------|
| Electrical design                                    | PNP/NPN       |
| Output function                                      | normally open |
| Max. voltage drop switching output DC [V]            | 4.6           |
| Minimum load current [mA]                            | 4             |
| Max. leakage current [mA]                            | 0.6           |
| Permanent current rating of switching output DC [mA] | 400           |
| Switching frequency DC [Hz]                          | 90            |
| Short-circuit protection                             | yes           |
| Type of short-circuit protection                     | pulsed        |
| Overload protection                                  | yes           |



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| 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: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2 |
| Hysteresis                                                                          | [X01]            | 3...20                                                                      |
| Switch point drift                                                                  | [X01]            | -15...15                                                                    |
| Operating conditions                                                                |                  |                                                                             |
| Ambient temperature                                                                 | [°C]             | -25...70                                                                    |
| Protection                                                                          |                  | IP 67                                                                       |
| Tests / approvals                                                                   |                  |                                                                             |
| EMC                                                                                 |                  | EN 60947-5-2                                                                |
| MTTF                                                                                | [ANN]            | 1631                                                                        |
| Mechanical data                                                                     |                  |                                                                             |
| Weight                                                                              | [g]              | 406                                                                         |
| Housing                                                                             |                  | rectangular                                                                 |
| Mounting                                                                            |                  | flush mountable                                                             |
| Dimensions                                                                          | [mm]             | 92 x 80 x 40                                                                |
| Materials                                                                           |                  | PPE; brass nickel-plated                                                    |
| Displays / operating elements                                                       |                  |                                                                             |
| Display                                                                             | switching status | 1 x LED, yellow                                                             |
| Аксессуары                                                                          |                  |                                                                             |
| Items supplied                                                                      |                  | sealing plug: 1                                                             |
| Remarks                                                                             |                  |                                                                             |
| Pack quantity                                                                       |                  | 1 pcs.                                                                      |
| Electrical connection - plug                                                        |                  |                                                                             |
| Cable: 0.8 m, PUR                                                                   |                  |                                                                             |
| Connector: 1 x M12; coding: A                                                       |                  |                                                                             |
|  |                  |                                                                             |

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### Connection

