

## Inductive sensor

IDC2050BARKG/UP/0,15M/PUR/US

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## 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                     | yes (non-latching) |
| Overload protection                                  | yes                |

# ID9919



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| Monitoring range                                                                    |                  |                                                                            |
|-------------------------------------------------------------------------------------|------------------|----------------------------------------------------------------------------|
| 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 / aluminum: 0.3 / copper: 0.2 |
| 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     |                                                                            |
| Mechanical data                                                                     |                  |                                                                            |
| Housing                                                                             |                  | rectangular                                                                |
| Mounting                                                                            |                  | flush mountable                                                            |
| Dimensions                                                                          | [mm]             | 92 x 80 x 40                                                               |
| Material                                                                            |                  | PPE; brass nickel-plated                                                   |
| Displays / operating elements                                                       |                  |                                                                            |
| Display                                                                             | Switching status | 1 x LED, yellow                                                            |
| Accessories                                                                         |                  |                                                                            |
| Items supplied                                                                      |                  | sealing plug: 1                                                            |
| Remarks                                                                             |                  |                                                                            |
| Pack quantity                                                                       |                  | 1 pcs.                                                                     |
| Electrical connection - plug                                                        |                  |                                                                            |
| Cable: 0.15 m, PUR                                                                  |                  |                                                                            |
| Connector: 1 x M12; coding: A                                                       |                  |                                                                            |
|  |                  |                                                                            |

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### Connection

