

# ID5028



## Inductive sensor

ID-3050-ANKG



### Product characteristics

|                    |               |
|--------------------|---------------|
| Electrical design  | NPN           |
| Output function    | normally open |
| Sensing range [mm] | 50            |
| Housing            | rectangular   |
| Dimensions [mm]    | 120 x 80 x 30 |

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...36 DC |
| Current consumption [mA]    | 15; (24 V) |
| Protection class            | II         |
| Reverse polarity protection | yes        |

### Outputs

|                                                      |                    |
|------------------------------------------------------|--------------------|
| Electrical design                                    | NPN                |
| Output function                                      | normally open      |
| Max. voltage drop switching output DC [V]            | 2.5                |
| Permanent current rating of switching output DC [mA] | 250                |
| Switching frequency DC [Hz]                          | 8                  |
| Short-circuit protection                             | yes                |
| Type of short-circuit protection                     | yes (non-latching) |
| Overload protection                                  | yes                |

### Monitoring range

|                    |    |
|--------------------|----|
| Sensing range [mm] | 50 |
|--------------------|----|

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|                                    |                                                                            |                 |
|------------------------------------|----------------------------------------------------------------------------|-----------------|
| Sensing range adjustable           | yes                                                                        |                 |
| Factory setting sensing range [mm] | 50                                                                         |                 |
| Real sensing range Sr [mm]         | 50 ± 10 %                                                                  |                 |
| Operating distance [mm]            | 0...40.5                                                                   |                 |
| Accuracy / deviations              |                                                                            |                 |
| Correction factor                  | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2 |                 |
| Hysteresis [% of Sr]               | 1...15                                                                     |                 |
| Switch-point drift [% of Sr]       | -10...10                                                                   |                 |
| Operating conditions               |                                                                            |                 |
| Ambient temperature [°C]           | -25...80                                                                   |                 |
| Protection                         | IP 65                                                                      |                 |
| Tests / approvals                  |                                                                            |                 |
| EMC                                | EN 60947-5-2                                                               |                 |
|                                    | EN 55011                                                                   | class B         |
| MTTF [years]                       | 1132                                                                       |                 |
| Mechanical data                    |                                                                            |                 |
| Weight [g]                         | 595.5                                                                      |                 |
| Housing                            | rectangular                                                                |                 |
| Mounting                           | non-flush mountable                                                        |                 |
| Dimensions [mm]                    | 120 x 80 x 30                                                              |                 |
| Material                           | PPE modified                                                               |                 |
| Displays / operating elements      |                                                                            |                 |
| Display                            | Switching status                                                           | 1 x LED, yellow |
| Accessories                        |                                                                            |                 |
| Items supplied                     | screwdriver: 1                                                             |                 |
| Remarks                            |                                                                            |                 |
| Pack quantity                      | 1 pcs.                                                                     |                 |

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### Electrical connection

Cable: 2 m, PVC; 3 x 0.5 mm<sup>2</sup>

### Connection



|      |               |
|------|---------------|
| BN = | Core colors : |
| BU = | brown         |
| BK = | blue          |
|      | black         |