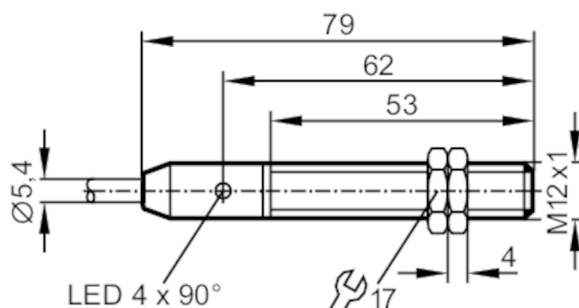




## Inductive sensor

IFKC004BASKG/M/60V/8M/ZH

Article no longer available - archive entry



### Product characteristics

|                    |                  |
|--------------------|------------------|
| Electrical design  | PNP/NPN          |
| Output function    | normally open    |
| Sensing range [mm] | 4                |
| Housing            | threaded type    |
| Dimensions [mm]    | M12 x 1 / L = 79 |

### Application

|                 |                                      |
|-----------------|--------------------------------------|
| Special feature | Increased sensing range              |
| Application     | Use in mobile and harsh applications |

### Electrical data

|                             |                                  |
|-----------------------------|----------------------------------|
| Operating voltage [V]       | 10...60 DC                       |
| Current consumption [mA]    | < 10; (only in 3-wire operation) |
| Protection class            | II                               |
| Reverse polarity protection | yes                              |

### Outputs

|                                                      |                                 |
|------------------------------------------------------|---------------------------------|
| Electrical design                                    | PNP/NPN                         |
| Output function                                      | normally open                   |
| Max. voltage drop switching output DC [V]            | 2.5; (100 mA)                   |
| Minimum load current [mA]                            | 2; (only in 2-wire operation)   |
| Max. leakage current [mA]                            | 0.5; (only in 2-wire operation) |
| Permanent current rating of switching output DC [mA] | 200                             |
| Switching frequency DC [Hz]                          | 400                             |
| Short-circuit protection                             | yes                             |
| Type of short-circuit protection                     | pulsed                          |
| Overload protection                                  | yes                             |

### Detection zone

|                         |          |
|-------------------------|----------|
| Sensing range [mm]      | 4        |
| Operating distance [mm] | 0...3.24 |



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|                                      |                                                                                  |
|--------------------------------------|----------------------------------------------------------------------------------|
| Increased sensing range              | yes                                                                              |
| <b>Accuracy / deviations</b>         |                                                                                  |
| Correction factor                    | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.5 / copper: 0.4      |
| Hysteresis [% of Sr]                 | 1...20                                                                           |
| <b>Operating conditions</b>          |                                                                                  |
| Ambient temperature [°C]             | -40...85                                                                         |
| Protection                           | IP 67; IP 69K                                                                    |
| <b>Tests / approvals</b>             |                                                                                  |
| EMC                                  | automotive area                                                                  |
|                                      | noise emission and noise immunity according to the automotive directive 95/54/EC |
|                                      | noise immunity according to DIN ISO 11452-2                                      |
|                                      | conducted interference acc. to ISO 7637-2                                        |
|                                      | pulse                                                                            |
|                                      | severity level                                                                   |
|                                      | failure criterion                                                                |
|                                      | EN 61000-4-2 ESD                                                                 |
|                                      | EN 61000-4-3 HF radiated                                                         |
|                                      | EN 61000-4-4 Burst                                                               |
|                                      | EN 61000-4-5 Surge                                                               |
|                                      | EN 61000-4-6 HF conducted                                                        |
|                                      | EN 55011                                                                         |
| Vibration resistance                 | EN 60068-2-6 Fc                                                                  |
| Shock resistance                     | EN 60068-2-27 Ea                                                                 |
| Continuous shock resistance          | EN 60068-2-27                                                                    |
| Fast temperature change              | EN 60068-2-14 Na                                                                 |
| Salt spray test                      | EN 60068-2-52 Kb                                                                 |
| <b>Mechanical data</b>               |                                                                                  |
| Weight [g]                           | 0.327                                                                            |
| Housing                              | threaded type                                                                    |
| Mounting                             | flush mountable                                                                  |
| Dimensions [mm]                      | M12 x 1 / L = 79                                                                 |
| Thread designation                   | M12 x 1                                                                          |
| Materials                            | housing: stainless steel; sensing face: PBT; LED window: PEI; lock nuts: brass   |
| <b>Displays / operating elements</b> |                                                                                  |
| Display                              | switching status                                                                 |
|                                      | 4 x 90° LED, yellow                                                              |
| <b>Accessories</b>                   |                                                                                  |
| Items supplied                       | lock nuts: 2                                                                     |
| <b>Remarks</b>                       |                                                                                  |
| Pack quantity                        | 1 pcs.                                                                           |

# IFM219



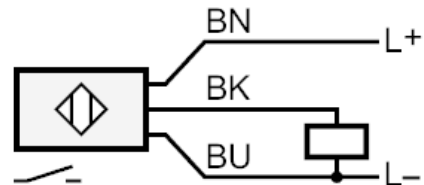
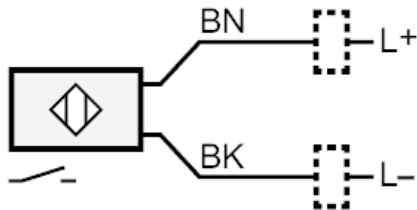
## Inductive sensor

IFKC004BASKG/M/60V/8M/ZH

### Electrical connection

Cable: 8 m, PUR, Ø 5.4 mm; 3 x 0.5 mm<sup>2</sup>

### Connection



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