





## Inductive sensor

IIK3012BBPKG/M/60V/25M/ZH

| Accuracy / deviations         |                                                                                                             |                                                                                                |
|-------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Correction factor             | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.45 / copper: 0.35                               |                                                                                                |
| Hysteresis                    | [% of Sr]                                                                                                   | 1...20                                                                                         |
| Operating conditions          |                                                                                                             |                                                                                                |
| Ambient temperature           | [°C]                                                                                                        | -40...85                                                                                       |
| Protection                    | IP 67; IP 69K                                                                                               |                                                                                                |
| Tests / approvals             |                                                                                                             |                                                                                                |
| EMC                           | automotive area                                                                                             |                                                                                                |
|                               | noise emission and noise interference: ECE R10                                                              | E1 type approval                                                                               |
|                               | noise immunity according to DIN ISO 11452-2                                                                 | 100 V/m                                                                                        |
|                               | conducted interference in 24 V networks to ISO 7637-2: 2004 (pulse 1 to 4) and ISO16750-2: 2012 (load dump) |                                                                                                |
|                               | pulse                                                                                                       | 1 2a 2b 3a 3b 4 Load dump                                                                      |
|                               | severity level                                                                                              | III III III III III III Test A                                                                 |
|                               | failure criterion                                                                                           | C A C A A C C                                                                                  |
|                               | EN 61000-4-2 ESD                                                                                            | 4 kV CD / 8 kV AD                                                                              |
|                               | EN 61000-4-3 HF radiated                                                                                    | 10 V/m                                                                                         |
|                               | EN 61000-4-4 Burst                                                                                          | 2 kV                                                                                           |
|                               | EN 61000-4-5 Surge                                                                                          | 0,5 kV mains line to line                                                                      |
|                               | EN 61000-4-6 HF conducted                                                                                   | 10 V                                                                                           |
|                               | EN 55011                                                                                                    | class B                                                                                        |
|                               | Vibration resistance                                                                                        | EN 60068-2-6 Fc                                                                                |
|                               |                                                                                                             | 50 sweep cycles, 1 octave per minute, in 3 axes                                                |
| Shock resistance              | EN 60068-2-27 Ea                                                                                            | 100 g 11 ms half-sine; 3 shocks each in every direction of the 3 coordinate axes / -40...85 °C |
| Continuous shock resistance   | EN 60068-2-27                                                                                               | 40 g 6 ms; 4000 shocks each in every direction of the 3 coordinate axes / -20...50 °C          |
| Fast temperature change       | EN 60068-2-14 Na                                                                                            | TA = -40 °C; TB = 85 °C; t1 = 30 min; t2 = < 10 s; 50 cycles                                   |
| Salt spray test               | EN 60068-2-52 Kb                                                                                            | severity level 5 (4 test cycles)                                                               |
| MTTF                          | [years]                                                                                                     | 907                                                                                            |
| Mechanical data               |                                                                                                             |                                                                                                |
| Weight                        | [g]                                                                                                         | 1045.6                                                                                         |
| Housing                       | threaded type                                                                                               |                                                                                                |
| Mounting                      | flush mountable                                                                                             |                                                                                                |
| Dimensions                    | [mm]                                                                                                        | M30 x 1.5 / L = 81                                                                             |
| Thread designation            | M30 x 1.5                                                                                                   |                                                                                                |
| Materials                     | threaded sleeve: stainless steel; sensing face: LCP natural; LED window: PEI; lock nuts: brass              |                                                                                                |
| Displays / operating elements |                                                                                                             |                                                                                                |
| Display                       | switching status                                                                                            | 4 x 90° LED, yellow                                                                            |
| Accessories                   |                                                                                                             |                                                                                                |
| Items supplied                | lock nuts: 2                                                                                                |                                                                                                |

# IIM220



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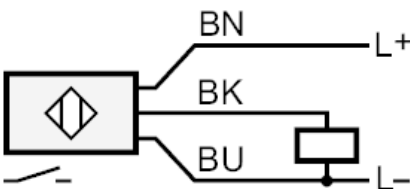
### Remarks

|               |        |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

### Electrical connection

Cable: 25 m, PUR; burning behaviour to ECE R118 rev. 2; 3 x 0.5 mm<sup>2</sup>

### Connection



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