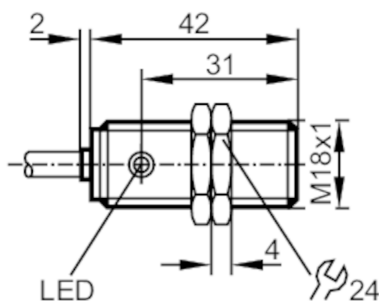




## Inductive sensor

IGC2005SFRKG/KG-ST/2,5M/T

Status Archive



## Electrical data

|                                    |                                                        |
|------------------------------------|--------------------------------------------------------|
| Connection to switching amplifiers | yes                                                    |
| Switching amplifiers               | connection to F400 control monitor or as 2-wire DC DNP |
| Operating voltage [V]              | 10...36 DC                                             |
| Protection class                   | II                                                     |
| Reverse polarity protection        | yes                                                    |

## Outputs

|                                                      |                                               |
|------------------------------------------------------|-----------------------------------------------|
| Electrical design                                    | PNP                                           |
| Output function                                      | normally open / normally closed; (selectable) |
| Max. voltage drop switching output DC [V]            | 4.6                                           |
| Minimum load current [mA]                            | 5                                             |
| Max. leakage current [mA]                            | 1.5                                           |
| Permanent current rating of switching output DC [mA] | 150                                           |
| Switching frequency DC [Hz]                          | 720                                           |
| Notes on switching frequency                         | connected to F400                             |
| Short-circuit protection                             | yes                                           |
| Type of short-circuit protection                     | pulsed                                        |
| Overload protection                                  | yes                                           |

## Detection zone

|                               |               |
|-------------------------------|---------------|
| Sensing range [mm]            | 5             |
| Real sensing range $S_r$ [mm] | $5 \pm 10 \%$ |
| Operating distance [mm]       | 0...4.05      |

## Accuracy / deviations

|                                  |                                                                             |
|----------------------------------|-----------------------------------------------------------------------------|
| Correction factor                | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2 |
| Hysteresis [% of $S_r$ ]         | 1...15                                                                      |
| Switch point drift [% of $S_r$ ] | -10...10                                                                    |

# IG5729



## Inductive sensor

IGC2005SFRKG/KG-ST/2,5M/T

| Operating conditions          |                  |                            |
|-------------------------------|------------------|----------------------------|
| Ambient temperature           | [°C]             | -25...80                   |
| Protection                    |                  | IP 67                      |
| Tests / approvals             |                  |                            |
| EMC                           | EN 60947-5-2     |                            |
|                               | EN 55011         | class B                    |
| MTTF                          | [years]          | 2600                       |
| Mechanical data               |                  |                            |
| Weight                        | [g]              | 184.2                      |
| Housing                       |                  | threaded type              |
| Mounting                      |                  | flush mountable            |
| Dimensions                    | [mm]             | M18 x 1 / L = 42           |
| Thread designation            |                  | M18 x 1                    |
| Materials                     |                  | housing: PBT; end cap: PES |
| Displays / operating elements |                  |                            |
| Display                       | switching status | 1 x LED, yellow            |
| Accessories                   |                  |                            |
| Accessories (supplied)        |                  | lock nuts: 2               |
| Remarks                       |                  |                            |
| Notes                         |                  | discontinued article       |
| Pack quantity                 |                  | 1 pcs.                     |



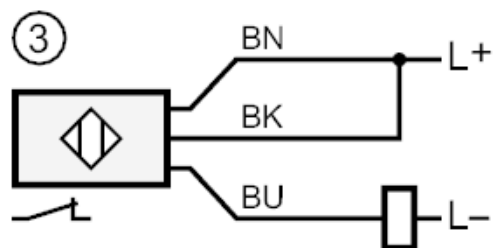
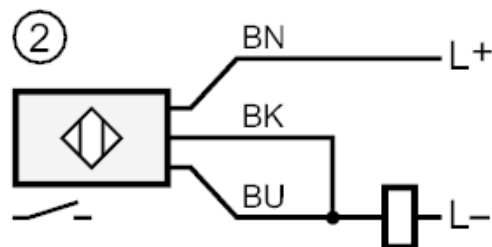
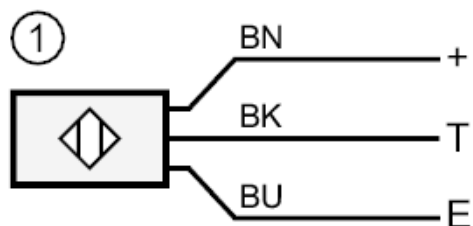
## Inductive sensor

IGC2005SFRKG/KG-ST/2,5M/T

### Electrical connection

Cable: 2.5 m, PTFE; 3 x 0.25 mm<sup>2</sup>

### Connection



- 1 = connection to F400  
2 = Connection 2-wire DC  
3 = Connection 2-wire DC  
Core colours :  
BK = black

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