

Technical data sheet Fork photoelectric sensor

Part no.: 50119711

GS 754B/D3-98-S12

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Figure can vary



Technical data

Basic data

| | |
|--------|-----|
| Series | 754 |
|--------|-----|

Optical data

| | |
|--------------------------|--|
| Measurement field length | 25 mm |
| Light source | LED, Infrared |
| Wavelength | 850 nm |
| LED group | Exempt group (in acc. with EN 62471) |
| Object position | Objects \leq 1 mm should be detected in front of the receiver. |

Measurement data

| | |
|-------------------------|--|
| Minimum object diameter | 0.5 mm |
| System resolution | a: 0.1 mm (mode 1 ... 5) b: 0.014 mm (Mode 7) |
| Linearity error | 0 ... 0.36 mm |

Electrical data

| | |
|--------------------|------------------------------|
| Protective circuit | Overvoltage protection |
| | Polarity reversal protection |
| | Short circuit protected |

Performance data

| | |
|----------------------|------------------|
| Supply voltage U_B | 10 ... 30 V, DC |
| Residual ripple | 15 %, From U_B |
| Open-circuit current | 60 mA |

Inputs

Activation inputs

| | |
|--------------------------|------|
| Activation/disable delay | 1 ms |
|--------------------------|------|

Time behavior

| | |
|-----------------|---------------|
| Response time | 12 ms |
| Readiness delay | 300 ms |
| Output cycle | 0.012 ... 3 s |

Interface

| | |
|------|--------|
| Type | RS 422 |
|------|--------|

Connection

Connection 1

| | |
|--------------------|-----------|
| Type of connection | Connector |
| Thread size | M12 |
| Material | Metal |
| No. of pins | 5 -pin |

Mechanical data

| | |
|-----------------------|--------------------------|
| Mouth width | 98 mm |
| Mouth depth | 42 mm |
| Dimension (W x H x L) | 20.4 mm x 157 mm x 91 mm |
| Housing material | Metal |
| Metal housing | Diecast zinc |
| Lens cover material | Plastic / PMMA |
| Net weight | 290 g |

Operation and display

| | |
|-----------------------|----------|
| Type of configuration | Software |
|-----------------------|----------|

Environmental data

| | |
|--------------------------------|---------------|
| Ambient temperature, operation | -20 ... 50 °C |
| Ambient temperature, storage | -30 ... 60 °C |

Certifications

| | |
|----------------------|---------------|
| Degree of protection | IP 67 |
| Protection class | III |
| Certifications | c UL US |
| Standards applied | IEC 60947-5-2 |

Classification

| | |
|-----------------------|----------|
| Customs tariff number | 85365019 |
| ECLASS 5.1.4 | 27270909 |
| ECLASS 8.0 | 27270909 |
| ECLASS 9.0 | 27270909 |
| ECLASS 10.0 | 27270909 |
| ECLASS 11.0 | 27270909 |
| ECLASS 12.0 | 27270909 |
| ECLASS 13.0 | 27270909 |
| ETIM 5.0 | EC002720 |
| ETIM 6.0 | EC002720 |
| ETIM 7.0 | EC002720 |
| ETIM 8.0 | EC002720 |

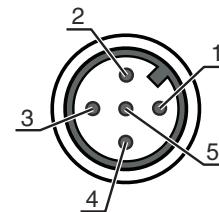
Electrical connection

Connection 1

| | |
|--------------------|-----------|
| Type of connection | Connector |
| Thread size | M12 |
| Type | Male |
| Material | Metal |
| No. of pins | 5 -pin |
| Encoding | A-coded |

Electrical connection

| Pin | Pin assignment | Conductor color |
|-----|----------------|-----------------|
| 1 | +10...30 V DC | Brown |
| 2 | Tx- | White |
| 3 | GND | Blue |
| 4 | Tx+ | Black |
| 5 | FE | Gray |



Operation and display

| LED | Display | Meaning |
|-----|-------------------------|---------|
| 1 | Green, continuous light | Ready |
| | Green, flashing | Fault |

Notes




Observe intended use!



- ⚠ This product is not a safety sensor and is not intended as personnel protection.
- ⚠ The product may only be put into operation by competent persons.
- ⚠ Only use the product in accordance with its intended use.

Accessories

Connection technology - Connection cables

| | Part no. | Designation | Article | Description |
|--|----------|--------------------|------------------|---|
|  | 50132079 | KD U-M12-5A-V1-050 | Connection cable | Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 5.000 mm Sheathing material: PVC |

Note



- ⚠ A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.