

## Technical data sheet Fork photoelectric sensor

Part no.: 50117818

GS 754B/V4-98-S12

### Contents

- Technical data
- Electrical connection
- Operation and display
- Notes
- Accessories



For illustration purposes only



## Technical data

### Basic data

|             |   |
|-------------|---|
| Series      | 754   |
| Application | Detection of transparent objects<br>Film detection > 0.1 mm |

### Special version

|                 |             |
|-----------------|-------------|
| Special version | Teach input |
|-----------------|-------------|

### Optical data

|                          |               |
|--------------------------|---------------|
| Measurement field length | 25 mm         |
| Light source             | LED, Infrared |

### Measurement data

|                   |  |
|-------------------|--|
| System resolution | a: 0.1 mm (mode 1 ... 5)<br>b: 0.014 mm (Mode 7) |
|-------------------|--|

### Electrical data

|                    |   |
|--------------------|---|
| Protective circuit | Overvoltage protection<br>Polarity reversal protection<br>Short circuit protected |
|--------------------|---|

### Performance data

|                               |                 |
|-------------------------------|-----------------|
| Supply voltage U <sub>B</sub> | 18 ... 30 V, DC |
|-------------------------------|-----------------|

### Outputs

#### Analog outputs

|      |               |
|------|---------------|
| Type | Analog output |
|------|---------------|

#### Analog output 1

|      |         |
|------|---------|
| Type | Voltage |
|------|---------|

### Inputs/outputs selectable

#### Input/output 1

|          |   |
|----------|---|
| Function | Switching output / teach input switchable |
|----------|---|

### 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           |
| Approvals            | 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 |
| ECLASS 14.0           | 27270909 |
| ECLASS 15.0           | 27270909 |
| ECLASS 16.0           | 27270909 |
| ETIM 5.0              | EC002720 |
| ETIM 6.0              | EC002720 |
| ETIM 7.0              | EC002720 |
| ETIM 8.0              | EC002720 |
| ETIM 9.0              | EC002720 |
| ETIM 10.0             | EC002720 |
| UNSPSC 26.08          | 39121528 |

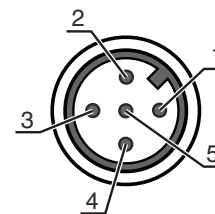
## Electrical connection

### Connection 1

|                    |                              |
|--------------------|------------------------------|
| Function           | Signal OUT<br>Voltage supply |
| 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   | 18 ... 30 V DC + | Brown           |
| 2   | I/O 1            | White           |
| 3   | GND              | Blue            |
| 4   | Analog output    | 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 | Application: Chemical resistant<br>Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin<br>Connector, LED: No<br>Connection 2: Open end<br>Shielded: No<br>Cable length: 5,000 mm<br>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.