

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 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) b: 0.014 mm (Mode 7) |
|-------------------|--|

Electrical data

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

Performance data

| | |
|----------------------|-----------------|
| Supply voltage U_B | 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 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 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.