

## Technical data sheet

### Throughbeam photoelectric sensor transmitter

Part no.: 50106871

LSS 96M-1093-24

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For illustration purposes only



## Technical data

### Basic data

|                     |                       |
|---------------------|-----------------------|
| Series              | 96                    |
| Operating principle | Throughbeam principle |
| Device type         | Transmitter           |

### Special version

|                 |                  |
|-----------------|------------------|
| Special version | Activation input |
|                 | Heating          |

### Optical data

|                       |                            |
|-----------------------|----------------------------|
| Operating range       | 0 ... 120 m                |
| Operating range       | Guaranteed operating range |
| Operating range limit | 0 ... 150 m                |
| Operating range limit | Typical operating range    |
| Light source          | LED, Infrared              |

### Electrical data

#### Performance data

|                      |                        |
|----------------------|------------------------|
| Supply voltage $U_B$ | 10 ... 30 V, DC        |
| Residual ripple      | 0 ... 15 %, From $U_B$ |
| Open-circuit current | 0 ... 50 mA            |

#### Inputs

|                             |            |
|-----------------------------|------------|
| Number of activation inputs | 1 Piece(s) |
|-----------------------------|------------|

#### Activation inputs

#### Activation input 1

### Time behavior

### Connection

#### Connection 1

|                    |          |
|--------------------|----------|
| Type of connection | Terminal |
| No. of pins        | 3 -pin   |

### Mechanical data

|                       |                                                                |
|-----------------------|----------------------------------------------------------------|
| Dimension (W x H x L) | 30 mm x 90 mm x 70 mm                                          |
| Housing material      | Metal                                                          |
| Metal housing         | Zinc                                                           |
| Lens cover material   | Glass                                                          |
| Net weight            | 380 g                                                          |
| Note                  | Housing part used contains perfluorobutanesulfonic acid (PFBS) |

### Operation and display

|                 |     |
|-----------------|-----|
| Type of display | LED |
|-----------------|-----|

### Environmental data

|                                |               |
|--------------------------------|---------------|
| Ambient temperature, operation | -40 ... 55 °C |
|--------------------------------|---------------|

### Certifications

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

### Classification

|                       |          |
|-----------------------|----------|
| Customs tariff number | 85365019 |
| ECLASS 5.1.4          | 27270901 |
| ECLASS 8.0            | 27270901 |
| ECLASS 9.0            | 27270901 |
| ECLASS 10.0           | 27270901 |
| ECLASS 11.0           | 27270901 |
| ECLASS 12.0           | 27270901 |
| ECLASS 13.0           | 27270901 |
| ECLASS 14.0           | 27270901 |
| ECLASS 15.0           | 27270901 |
| ETIM 5.0              | EC002716 |
| ETIM 6.0              | EC002716 |
| ETIM 7.0              | EC002716 |
| ETIM 8.0              | EC002716 |
| ETIM 9.0              | EC002716 |
| ETIM 10.0             | EC002716 |

## Electrical connection

### Connection 1

|                    |          |
|--------------------|----------|
| Type of connection | Terminal |
| No. of pins        | 3 -pin   |

### Terminal

### Assignment

|   |  |
|---|--|
| 1 |  |
| 2 |  |
| 3 |  |

## Suitable receivers

|                                                                                   | Part no. | Designation       | Article                                   | Description                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------|----------|-------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | 50033328 | LSE 96M/P-3012-21 | Throughbeam photoelectric sensor receiver | Special version: Heating<br>Supply voltage: DC<br>Digital switching outputs: 2 Piece(s)<br>Switching output 1: Transistor, PNP, Light switching<br>Switching output 2: Transistor, PNP, Dark switching<br>Switching frequency: 500 Hz<br>Connection: Terminal, 4 -pin<br>Operational controls: 270° potentiometer |

## Accessories

### Mounting technology - Mounting brackets

|                                                                                   | Part no. | Designation | Article         | Description                                                                                                                                                                              |
|-----------------------------------------------------------------------------------|----------|-------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | 50025570 | BT 96       | Mounting device | Design of mounting device: Angle, L-shape<br>Fastening, at system: Through-hole mounting<br>Mounting bracket, at device: Screw type<br>Type of mounting device: Rigid<br>Material: Metal |

### Mounting technology - Rod mounts

|                                                                                     | Part no. | Designation | Article         | Description                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------|----------|-------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | 50104897 | BT 450.3-96 | Mounting device | Design of mounting device: Mounting system<br>Fastening, at system: For 12 mm rod<br>Mounting bracket, at device: Screw type<br>Type of mounting device: Turning, 360°, Adjustable<br>Material: Metal |

#### Note



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