



Part no.: 50131398
CSL505-T25-1475-M8
Light curtain transmitter



Figure can vary



Contents

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Technical data

| Basic data | |
|---------------------|--------------------------|
| Series | 505 |
| Operating principle | Throughbeam principle |
| Device type | Transmitter |
| Application | Precise object detection |

| Optical data | |
|--------------------------|----------------------------|
| Operating range | Guaranteed operating range |
| Operating range | 0.3 ... 5 m |
| Measurement field length | 1,475 mm |
| Number of beams | 60 Piece(s) |
| Beam spacing | 25 mm |
| Light source | LED , Infrared |
| LED light wavelength | 860 nm |

| Measurement data | |
|-------------------------|---------|
| Minimum object diameter | 27.5 mm |

| Electrical data | |
|------------------------|---|
| Protective circuit | Inductive protection Polarity reversal protection Short circuit protected |

| Performance data | |
|-------------------------|------------------|
| Supply voltage U_B | 18 ... 30 V , DC |

| Connection | |
|-----------------------|------------|
| Number of connections | 1 Piece(s) |

| Connection 1 | |
|---------------------|--------------------------------------|
| Type of connection | Connector |
| Function | Deactivation input Voltage supply |
| Thread size | M8 |
| Type | Male |
| Material | Metal |
| No. of pins | 4 -pin |
| Encoding | A-coded |

| Mechanical data | |
|------------------------|--------------------------|
| Design | Cubic |
| Dimension (W x H x L) | 10 mm x 1,550 mm x 27 mm |
| Housing material | Metal , Aluminum |
| Lens cover material | Plastic |
| Housing color | Silver |
| Type of fastening | Through-hole mounting |

| Operation and display | |
|------------------------------|------------|
| Type of display | LED |
| Number of LEDs | 1 Piece(s) |

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| | |
|-----------------------|--------------------------------|
| Type of configuration | Software Via pin assignment |
|-----------------------|--------------------------------|

Environmental data

| | |
|--------------------------------|---------------|
| Ambient temperature, operation | -30 ... 50 °C |
| Ambient temperature, storage | -40 ... 65 °C |

Certifications

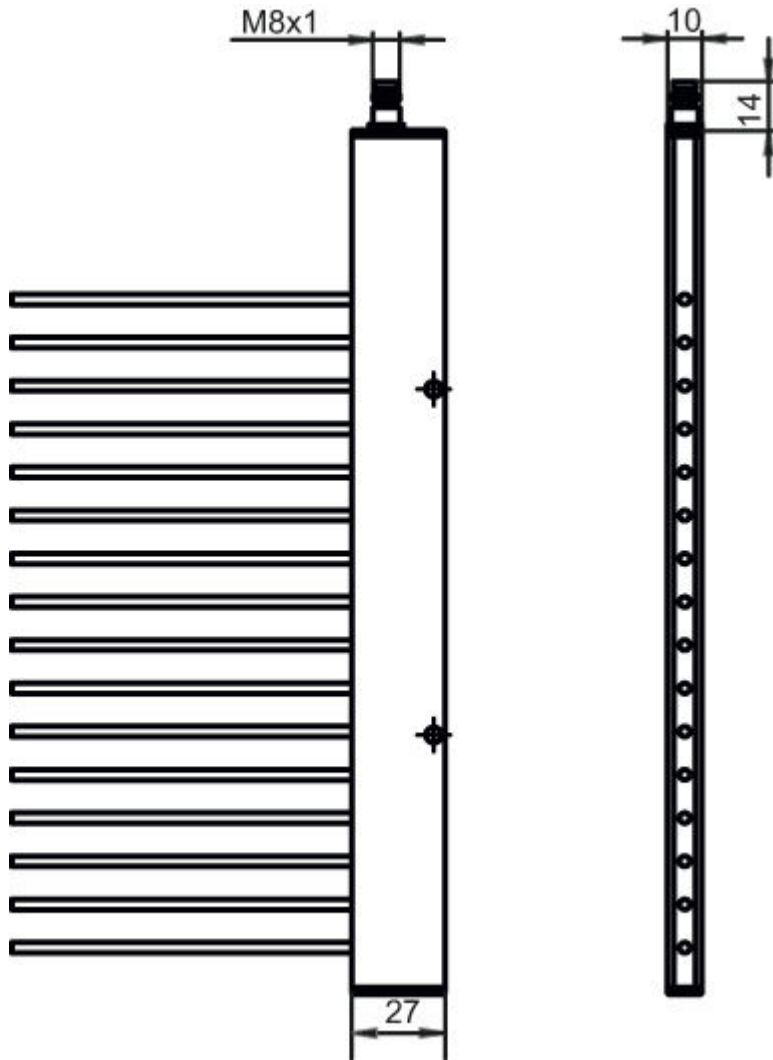
| | |
|----------------------|-------|
| Degree of protection | IP 65 |
| Protection class | III |

Classification

| | |
|-----------------------|----------|
| Customs tariff number | 90314990 |
| eCl@ss 8.0 | 27270910 |
| eCl@ss 9.0 | 27270910 |
| ETIM 5.0 | EC002549 |
| ETIM 6.0 | EC002549 |

Dimensioned drawings

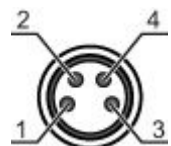
All dimensions in millimeters



Electrical connection

| Connection 1 | |
|--------------------|--------------------------------------|
| Type of connection | Connector |
| Function | Deactivation input Voltage supply |
| Thread size | M8 |
| Type | Male |
| Material | Metal |
| No. of pins | 4 -pin |
| Encoding | A-coded |

| Pin | Pin assignment |
|-----|----------------|
| 1 | V+ |
| 2 | n.c. |
| 3 | GND |
| 4 | IN 1 |




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Operation and display

LEDs

| LED | Display | Meaning |
|-----|-----------------------|-----------------------|
| 1 | Off | Off |
| | Red, continuous light | Operational readiness |
| | Red, flashing | Error |

Suitable receivers

| | Part no. | Designation | Article | Description |
|---|----------|--------------------|------------------------|---|
|  | 50131342 | CSL505-R25-1475-M8 | Light curtain receiver | Application: Precise object detection Operating range: 0.3 ... 5 m Digital switching outputs: 2 Piece(s) Switching output: Transistor, Push-pull, Light/dark reversible Connection: Connector, M8, 4 -pin |

Part number code

Part designation: **CSL505-XXXX-ZZZZ-AA**


| | |
|------|--|
| X | Operating principle: T: transmitter R: receiver |
| YYY | Beam spacing: 05: 5 mm 12.5: 12.5 mm 25: 25 mm 50: 50 mm 100: 100 mm |
| ZZZZ | Measurement field length: Measurement field length [mm], dependent on beam spacing |
| AA | Electrical connection: M8: M8 connector, 4-pin (plug) |

Note


A list with all available device types can be found on the Leuze electronic website at www.leuze.com.

Accessories

Connection technology - Connection cables

| | Part no. | Designation | Article | Description |
|---|----------|-------------------|------------------|---|
|  | 50130850 | KD U-M8-4A-V1-050 | Connection cable | Connection 1: Connector, M8, Axial, Female, 4 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PVC |

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| | Part no. | Designation | Article | Description |
|---|----------|-------------------|------------------|--|
|  | 50130871 | KD U-M8-4W-V1-050 | Connection cable | Connection 1: Connector, M8, Angled, Female, 4 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PVC |

| | Part no. | Designation | Article | Description |
|--|----------|------------------|---------|---|
| | 50132069 | CSL505-Interface | Module | Connection: Sub-D Functions: Configuration and test device |