



Part no.: 50131388
CSL505-T25-475-M8
Light curtain transmitter



Figure can vary



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Part no.: 50131388 – CSL505-T25-475-M8 – Light curtain transmitter

Technical data

| Basic data | |
|--------------------------|---|
| Series | 505 |
| Operating principle | Throughbeam principle |
| Device type | Transmitter |
| Application | Precise object detection |
| Special design | |
| Special design | Crossed-beam scanning Diagonal-beam scanning Parallel-beam scanning |
| Optical data | |
| Operating range | Guaranteed operating range |
| Operating range | 0.3 ... 5 m |
| Measurement field length | 475 mm |
| Number of beams | 20 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 | |
| Function | Deactivation input Voltage supply |
| Type of connection | Connector |
| 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 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) |
| Type of configuration | Software Via pin assignment |

Environmental data

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

Certifications

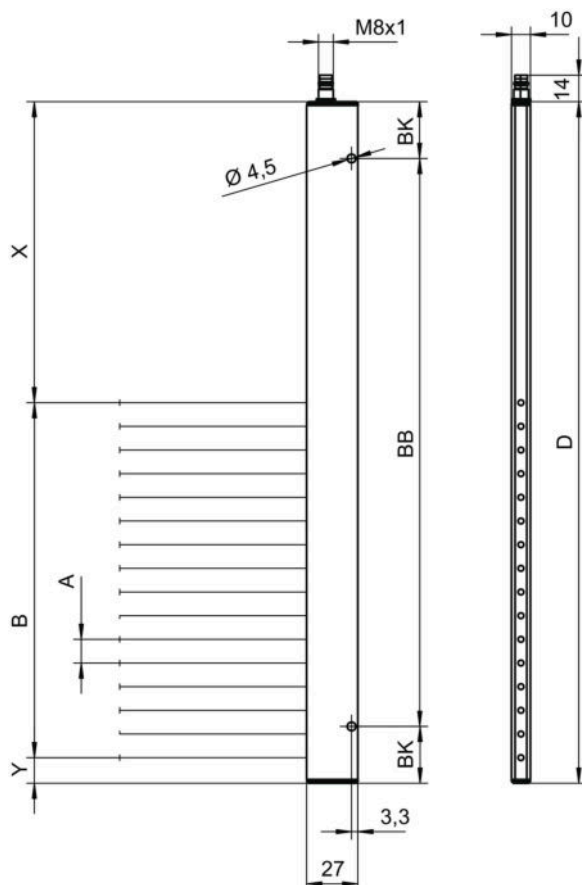
| | |
|----------------------|-------|
| Degree of protection | IP 65 |
| Protection class | III |

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



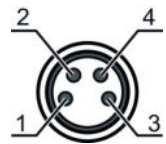
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Observe the exact dimensions in the chapter "Technical data, dimensioned drawings" in the operating instructions.

Electrical connection

| Connection 1 | |
|--------------------|--------------------------------------|
| Function | Deactivation input Voltage supply |
| Type of connection | Connector |
| 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 |




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 |
|---|----------|-------------------|------------------------|---|
|  | 50131332 | CSL505-R25-475-M8 | Light curtain receiver | Application: Precise object detection Special design: Parallel-beam scanning, Crossed-beam scanning, Diagonal-beam scanning, Teach input, Warning output 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 |
|---|---|





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| | |
|-----|--|
| YYY | Beam spacing: 05: 5 mm 12.5: 12.5 mm 25: 25 mm 50: 50 mm 100: 100 mm |
| ZZZ | Measurement field length: Measurement field length [mm], dependent on beam spacing |
| AA | Electrical connection: M8: M8 connector, 4-pin (plug) |

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| Note |
| A list with all available device types can be found on the Leuze 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 |
|   | 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 |

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