

# Technical data sheet

## Camera

Part no.: 50149229

LCAM 308 C6W-XX



For illustration purposes only

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Ethernet

## Technical data

### Basic data

|              |                                    |
|--------------|------------------------------------|
| Series       | LCAM                               |
| Suitable for | Use in intralogistics applications |
| Chip         | CMOS                               |

### Functions

|                    |                         |
|--------------------|-------------------------|
| Functions          | Real-time clock         |
| Software functions | Image memory            |
|                    | Image transfer          |
|                    | Livestream transmission |
|                    | REST-API                |
|                    | Video memory            |

### Optical data

|                                      |                               |
|--------------------------------------|-------------------------------|
| Working range, additional note       | Motor-driven focus adjustment |
| Working range                        | 500 mm ... ∞                  |
| Camera resolution, horizontal        | 1,280 px                      |
| Camera resolution, vertical          | 720 px                        |
| Focal length                         | 1.33 mm                       |
| Chip size                            | 1/4 in                        |
| Frame rate (images per second), max. | 24 pieces per second          |
| Opening angle, x-axis                | 108 °                         |
| Opening angle, y-axis                | 92 °                          |
| Camera type                          | Color                         |

### Electrical data

|                               |                                                    |
|-------------------------------|----------------------------------------------------|
| Performance data              |                                                    |
| Supply voltage U <sub>B</sub> | 18 ... 30 V, DC                                    |
| Power consumption, max.       | 5.6 W, (heating inactive) / 20 W, (heating active) |

### Interface

|                       |                            |
|-----------------------|----------------------------|
| Type                  | Ethernet                   |
| Ethernet              |                            |
| Address assignment    | DHCP                       |
|                       | Manual address assignment  |
| Transmission speed    | 10 Mbit/s                  |
|                       | 100 Mbit/s                 |
| Function              | Process                    |
|                       | Service                    |
| Switch functionality  | None                       |
| Transmission protocol | TCP/IP, RTP/RTSP, UDP, NTP |

### Connection

|                    |                         |
|--------------------|-------------------------|
| Connection 1       |                         |
| Function           | Configuration interface |
|                    | Data interface          |
|                    | Service interface       |
| Type of connection | Connector               |
| Thread size        | M12                     |
| No. of pins        | 4 -pin                  |
| Encoding           | D-coded                 |

### Connection 2

|                    |                |
|--------------------|----------------|
| Function           | Signal IN      |
|                    | Voltage supply |
| Type of connection | Connector      |
| Thread size        | M12            |
| No. of pins        | 4 -pin         |
| Encoding           | A-coded        |

### Mechanical data

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| Dimension (W x H x L) | 84.6 mm x 38.3 mm x 114 mm                                       |
| Housing material      | Metal                                                            |
| Lens cover material   | Plastic (PMMA+) with scratch-resistant Indium protective coating |
| Net weight            | 300 g                                                            |
| Type of fastening     | Mounting thread                                                  |
|                       | Via optional mounting device                                     |

### Environmental data

|                                |               |
|--------------------------------|---------------|
| Ambient temperature, operation | -30 ... 50 °C |
|--------------------------------|---------------|

### Certifications

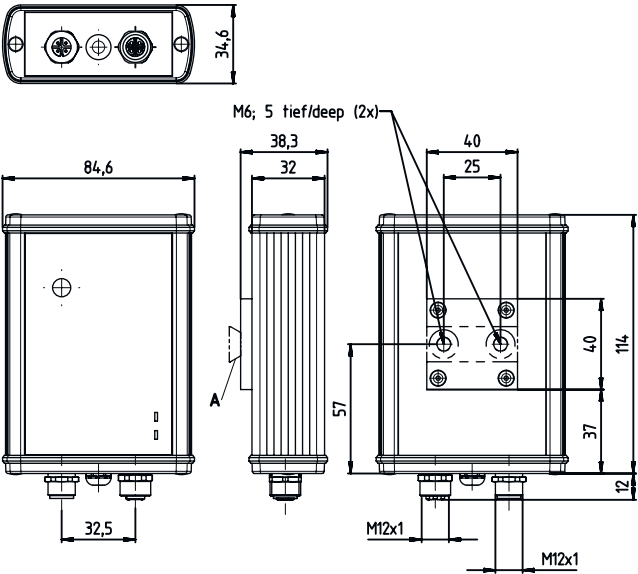
|                      |       |
|----------------------|-------|
| Degree of protection | IP 65 |
|----------------------|-------|

### Classification

|                       |          |
|-----------------------|----------|
| Customs tariff number | 85258900 |
| ECLASS 5.1.4          | 27310101 |
| ECLASS 8.0            | 27310101 |
| ECLASS 9.0            | 27310201 |
| ECLASS 10.0           | 27310101 |
| ECLASS 11.0           | 27310101 |
| ECLASS 12.0           | 27310101 |
| ECLASS 13.0           | 27310101 |
| ECLASS 14.0           | 27310101 |
| ECLASS 15.0           | 27310101 |
| ETIM 5.0              | EC002550 |
| ETIM 6.0              | EC002550 |
| ETIM 7.0              | EC002550 |
| ETIM 8.0              | EC002550 |
| ETIM 9.0              | EC002550 |
| ETIM 10.0             | EC002550 |

Dimensioned drawings

All dimensions in millimeters



A BTC 0310M-DT is required when using BT 56, BT 56-1, BT 59, BTU 0300M-W

Electrical connection

Connection 1

|                    |                         |
|--------------------|-------------------------|
| Function           | Configuration interface |
|                    | Data interface          |
|                    | Service interface       |
| Type of connection | Connector               |
| Thread size        | M12                     |
| Type               | Female                  |
| Material           | Metal                   |
| No. of pins        | 4 -pin                  |
| Encoding           | D-coded                 |

Pin Pin assignment

|   |     |
|---|-----|
| 1 | Tx+ |
| 2 | Rx+ |
| 3 | Tx- |
| 4 | Rx- |

Connection 2

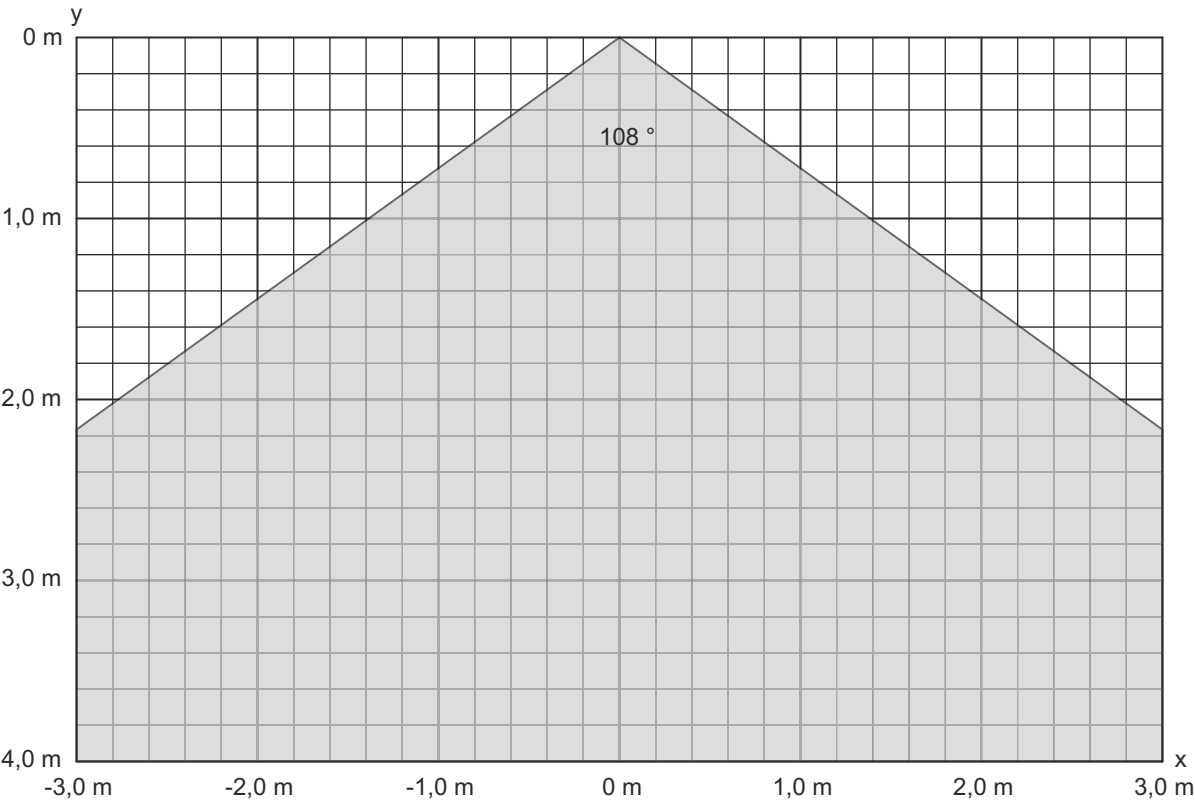
|                    |                |
|--------------------|----------------|
| Function           | Signal IN      |
|                    | Voltage supply |
| Type of connection | Connector      |
| Thread size        | M12            |
| Type               | Male           |
| Material           | Metal          |
| No. of pins        | 4 -pin         |
| Encoding           | A-coded        |

Electrical connection

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

Diagrams

Maximum horizontal field of view with setting 0/180°



Accessories

Connection technology - Connection unit

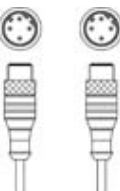
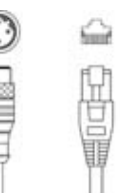
|                                                                                    | Part no. | Designation        | Article         | Description                                                                                                                                                                                     |
|------------------------------------------------------------------------------------|----------|--------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | 50135196 | MD 708-21-42/D4-12 | Ethernet switch | Supply voltage: 18 ... 30 V<br>Interface: Ethernet<br>Connections: 5 Piece(s)<br>Connections for voltage supply: 1 Piece(s)<br>Interface connections: 4 Piece(s)<br>Degree of protection: IP 67 |
|  | 50135197 | MD 708-21-82/D4-12 | Ethernet switch | Supply voltage: 18 ... 30 V<br>Interface: Ethernet<br>Connections: 9 Piece(s)<br>Connections for voltage supply: 1 Piece(s)<br>Interface connections: 8 Piece(s)<br>Degree of protection: IP 67 |

## Accessories

### Connection technology - Connection cables

|                                                                                   | Part no. | Designation        | Article          | Description                                                                                                                                                                       |
|-----------------------------------------------------------------------------------|----------|--------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | 50130657 | KD U-M12-4A-P1-050 | Connection cable | Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin<br>Connector, LED: No<br>Connection 2: Open end<br>Shielded: No<br>Cable length: 5.000 mm<br>Sheathing material: PUR |

### Connection technology - Interconnection cables

|                                                                                     | Part no. | Designation                 | Article               | Description                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------|----------|-----------------------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | 50130743 | KDS U-M12-4A-M12-4A-P1-050  | Interconnection cable | Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin<br>Connection 2: Connector, M12, Axial, Male, A-coded, 4 -pin<br>Shielded: No<br>Cable length: 5,000 mm<br>Sheathing material: PUR                                    |
|   | 50137077 | KSS ET-M12-4A-M12-4A-P7-020 | Interconnection cable | Suitable for interface: Ethernet<br>Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin<br>Connection 2: Connector, M12, Axial, Male, D-coded, 4 -pin<br>Shielded: Yes<br>Cable length: 2.000 mm<br>Sheathing material: PUR |
|  | 50135081 | KSS ET-M12-4A-RJ45-A-P7-050 | Interconnection cable | Suitable for interface: Ethernet<br>Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin<br>Connection 2: RJ45<br>Shielded: Yes<br>Cable length: 5,000 mm<br>Sheathing material: PUR                                         |

### Connection technology - Connectors

|                                                                                    | Part no. | Designation       | Article   | Description                                          |
|------------------------------------------------------------------------------------|----------|-------------------|-----------|------------------------------------------------------|
|  | 50137169 | S GB-RJ45-8A-K-SK | Connector | Suitable for interface: Ethernet<br>Connection: RJ45 |

### Mounting technology - Mounting brackets

|                                                                                     | Part no. | Designation | Article         | Description                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------|----------|-------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | 50121433 | BT 300 W    | 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: Adjustable<br>Material: Metal |

## Accessories

### Mounting technology - Rod mounts

|                                                                                   | Part no. | Designation | Article         | Description                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------|----------|-------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | 50121434 | BT 300 - 1  | Mounting device | Design of mounting device: Mounting system<br>Fastening, at system: For 10-16 mm rods<br>Mounting bracket, at device: Screw type<br>Type of mounting device: Turning, 360°, Adjustable<br>Material: Metal                                                       |
|   | 50027375 | BT 56       | Mounting device | Functions: Static applications<br>Design of mounting device: Mounting system<br>Fastening, at system: For 16 mm rod, For 18 mm rod, For 20 mm rod<br>Mounting bracket, at device: Clampable<br>Material: Metal<br>Tightening torque of the clamping jaws: 8 N·m |
|   | 50121435 | BT 56 - 1   | Mounting device | Functions: Static applications<br>Design of mounting device: Mounting system<br>Fastening, at system: For 12 mm rod, For 14 mm rod, For 16 mm rod<br>Mounting bracket, at device: Clampable<br>Material: Metal<br>Tightening torque of the clamping jaws: 8 N·m |

### Mounting technology - Other

|                                                                                     | Part no. | Designation  | Article          | Description                                                                                                                                                           |
|-------------------------------------------------------------------------------------|----------|--------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | 50111224 | BT 59        | Mounting bracket | Fastening, at system: Groove mounting<br>Mounting bracket, at device: Clampable<br>Material: Metal<br>Shock absorber: No                                              |
|  | 50148152 | BTC 0310M-DT | Mounting device  | Design of mounting device: Mounting clamp<br>Fastening, at system: Clampable<br>Mounting bracket, at device: Screw type<br>Material: Metal<br>Shock absorber: No      |
|  | 50124941 | BTU 0300M-W  | Mounting device  | Fastening, at system: Through-hole mounting<br>Mounting bracket, at device: Clampable, Groove mounting, Suited for M4 screws<br>Material: Metal<br>Shock absorber: No |

### Configuration devices

|                                                                                    | Part no. | Designation  | Article          | Description                                                          |
|------------------------------------------------------------------------------------|----------|--------------|------------------|----------------------------------------------------------------------|
|  | 50124709 | PA1/XTSX-M12 | Programming unit | Functions: Teach-in activation<br>Connection: Connector, M12, 5 -pin |

Accessories

| Note                                                                             |                                                                                                                                  |
|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
|  | <p>A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.</p> |