

SIEMENS



CHSL4010

CHSL4011

Large Camera Housing

Installation Guide

Building Technologies

Fire Safety & Security Products

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1 Safety

1.1 Target group

The instructions in this document are designed only for the following target group.

Target readers	Qualification	Activity	Condition of the product
Installer	Technical training for building or electrical installations.	Installs the product, individual components of the product or replacement parts.	Components of the product are not yet installed or need to be replaced or modified.

1.2 General safety precautions

- Read the general safety precautions before operating the device.
- Follow all warnings and instructions marked on the device.
- Keep this document for reference.
- Always pass this document on together with the product.
- Please also take into account any additional country-specific, local safety standards or regulations concerning project planning, operation and disposal of the product.
- It is recommended that all preparatory work (e.g. fitting of accessories) be carried out in a workshop prior to final installation.

Liability claim

- Do not connect the device if it is damaged or any parts are missing.
- Do not make any changes or modifications to the device unless they are expressly mentioned in this manual and have been approved by the manufacturer.
- Use only spare parts and accessories that have been approved by the manufacturer.

Risk of failure due to incorrect installation

- The fuse for the device and the fuse for the electrical system of the building must be installed separately.

Risk of cable damage due to stress

- Use only cable types that are approved for the environmental requirements.
- The cable glands used must be appropriate for the cable diameter.

1.3 Meaning of the signal words

The severity of a hazard is indicated by the following written warning notices.

Signal word	Type of hazard
CAUTION	There is a risk of minor to medium injuries or damage to property
IMPORTANT	Malfunctioning may result

1.4 Meaning of the hazard symbols

The nature of the hazard is indicated by icons.



Warning of a hazard

2 EU Directives

The product complies with the requirements of the following EU directives. The EU declaration of conformity is available from:

Siemens Building Technologies
Fire & Security Products GmbH & Co. oHG
76181 Karlsruhe
Germany

EU Directive 2004/108/EC on electromagnetic compatibility

Conformity with the European Directive 2004/108/EC is demonstrated by compliance with the following standards:

Emitted interference:	EN 61000-3-2 EN 61000-3-3 EN 55022 Class B
Resistance to interference:	EN 50130-4

EU Directive 2006/95/EC “Low-Voltage Directive”

Compliance with the European Directive 2006/95/EC has been proven by testing according to the following standard:

Safety:	EN 60950-1
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3 Technical data

3.1 Specifications

Nominal Voltage	CHSL4010: 110 – 230 V AC, 50/60 Hz CHSL4011: 12 – 24 V AC, 50/60 Hz
Fuse Rating (Fuse F1)	CHSL4010: 2 A 250 V AC 5 x 20 Type (T), HBC CHSL4011: 5 A 250 V AC 5 x 20 Type (T), HBC
Electrical Connections	Main supply connections via fused PCB mounted terminal blocks. Use crimped ferrules when terminating cables. 6 way pillar terminal block available for user connections.
Cable Entry	1 x 25 mm hole to accept conduit (fitted with blanking plug). 1 x 16 mm Cable Gland (5 – 10 mm diameter cable range) 2 x 20 mm Cable Glands (6 – 12 mm diameter cable range)
Heater	7 W nominal, 25 W max. PTC resistor heating element, thermostatically controlled.
Environmental	
Operating Temperature	-20 to +60 °C (-20 to +40 °C when wiper kit fitted) Ensure fitted equipment has suitable temperature range for the application (e.g. maximum typical ambient operating temperature of camera and lens. Ta = 40 °C).
Maximum internal dissipated power	50 W (25 W (including wiper motor) when wiper kit fitted)
Relative humidity	Up to 95 % non-condensing
Weatherproof rating	IP66, BS EN 60 529
Material	Toughened Glass Window Aluminium extrusions (Housing body / Sunshield) Die cast aluminium (front and rear end caps)
Finish	Endcaps: Polyester powder coat, RAL7016 Grey Housing Body: Polyester powder coat, RAL9006 White Aluminium Sunshield: Polyester powder coat, RAL9006 White Aluminium
Internal Dimensions (L x W x H)	400 x 125 x 110 mm
Usable Height with Wiper fitted	88 mm
Weight	Including Sunshield: 6.0 Kg Excluding Sunshield: 4.9 Kg
Suitable Pan and Tilt Units	CDD2425, CDD2416-T, CDAP2316-T, CDAP2416-T
Suitable Brackets	CHBS2815, CDBS4540 + CAHA1040

3.2 Mechanical dimensions

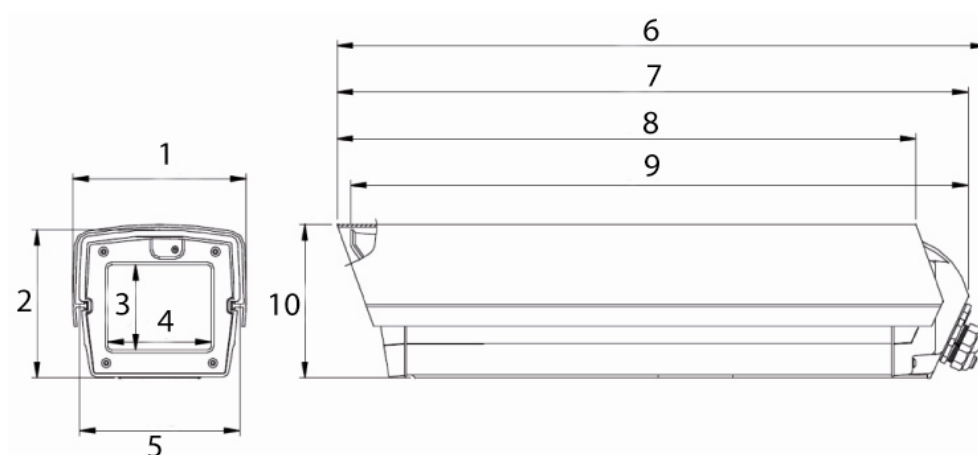


Fig. 1 Mechanical dimensions

1	168 mm
2	143 mm
3	82.5 mm
4	100 mm
5	155 mm
6	627 mm
7	609 mm
8	559 mm
9	596 mm
10	149 mm

3.3 Key to Parts

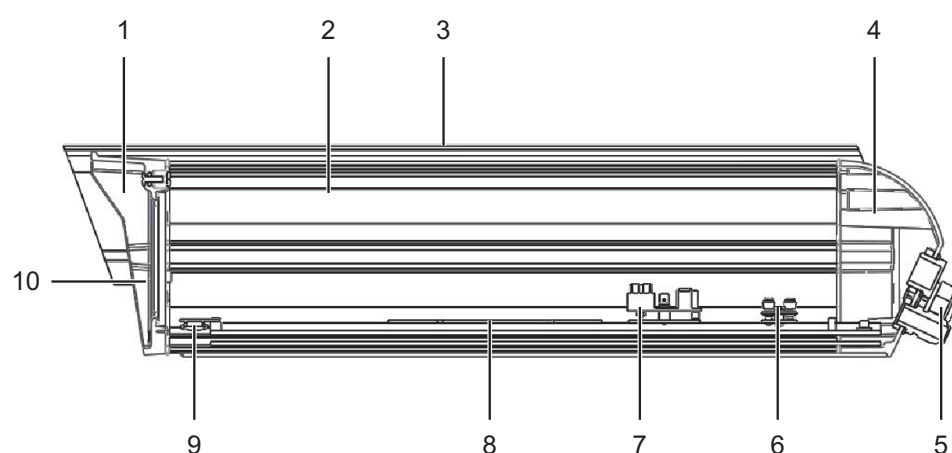


Fig. 2 Key to Parts

1	Front End Cap	6	Cable Anchor
2	Housing Body	7	Terminal Board
3	Sunshield	8	Camera Mounting Plate
4	Rear End Cap	9	Demister Assembly
5	Cable Glands	10	Window

4 Scope of delivery

- Installation Guide
- Camera fixing screw (1/4" BSW x 1/2" hex hd.)
- Camera fixing screw (1/4" BSW x 3/4" hex hd.)
- 4 x M6x12 mm socket cap head screws
- 4 x M6 washers
- Spacer block (1.6 mm thick)
- Spacer block (3 mm thick)
- Spacer block (6.3 mm thick)
- 3 mm (across flats) ALLEN key
- Shoulder washer (to insulate screw from camera mounting plate)



NOTE

The complete assembly should be mounted and tested in the workshop prior to use on-site.

Accessories

Type	Designation
CAHL4010-WK	230 V AC Wiper Kit
CAHL4011-WK	24 V AC Wiper Kit
CAHL401X-WK	Spare Wiper Arm Assembly
CAHL4010-WU	230V AC Washer Unit
CAHL4011-WU	24V AC Washer Unit
CAPD1210-C230	12 V DC 500 mA PSU 230 V AC input

5 Mounting

5.1 Adjusting the Sunshield

1. Firmly squeeze **(A)** the sides of the sunshield (See Fig. 3).
2. Slide **(B)** the sunshield to the required position.
3. Release the sunshield and it will remain in position.

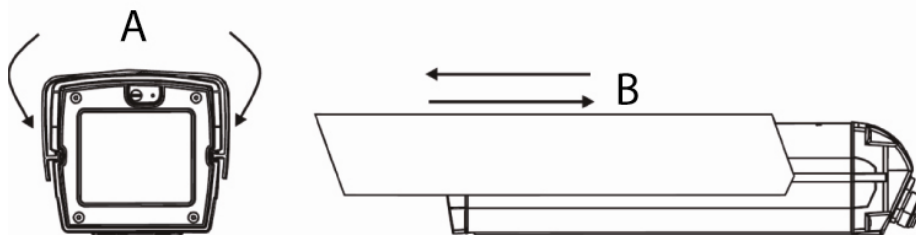


Fig. 3 Sunshield adjustment

5.2 Accessing the inside of the Housing Enclosure

1. Using the ALLEN key provided, loosen but do not completely remove the 4 securing screws **(A)** (See Fig. 4).
2. Slide the housing cover forwards **(B)**.
3. Disconnect the earth wire from the terminal board **(C)**.
4. Allow the cover to pivot at the end or twist to completely remove **(D)**.



NOTE

To re-assemble carry out steps 1 to 4 in reverse, making sure the earth wire is reconnected. The screws which secure the housing to the rear cap should be retightened to a torque of 2 Nm.

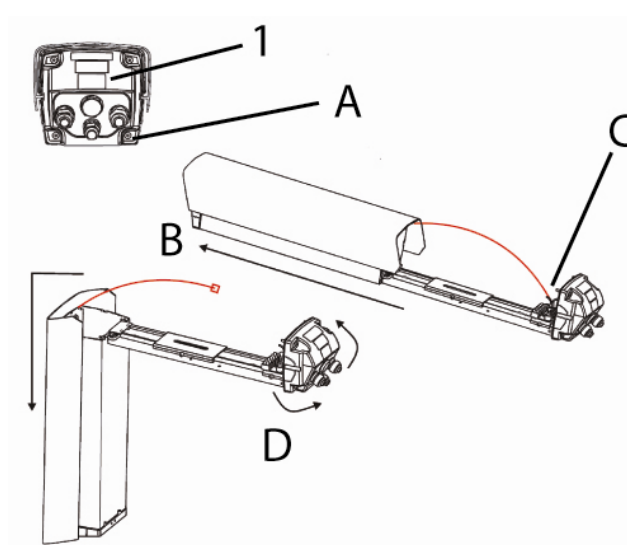


Fig. 4 Inside the housing enclosure

1	Rear End Cap
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5.3 Mounting the Camera and Lens Assembly

1. With the housing cover slid forward or removed, slacken the Pozi Pan Head Screw, but do not remove **(A)** (see Fig. 5).
2. Push the plate to unclip it from the rail **(B)**.
3. Pull back the plate to release it from the rail **(C)**.
4. Secure the camera to the plate, as per the manufacturer's instructions (screws suitable for most cameras are supplied with the housing). The nylon shoulder washer can be used on the mounting screw for the camera to insulate it from the housing.
5. Use the spacers provided to adjust the height of the camera and lens on the plate, the lens should be centralised on and close to the window glass when mounted in the housing.
6. Reattach the plate **(D)** following Steps 1 to 3 in reverse.
7. Wire the camera and lens as described in the manufacturer's instructions, see section 5.5 for details on connecting to the power supply. Use the cable anchors to clamp all cables.
8. Once the camera installation and wiring is complete, close the housing as described in section 5.2.

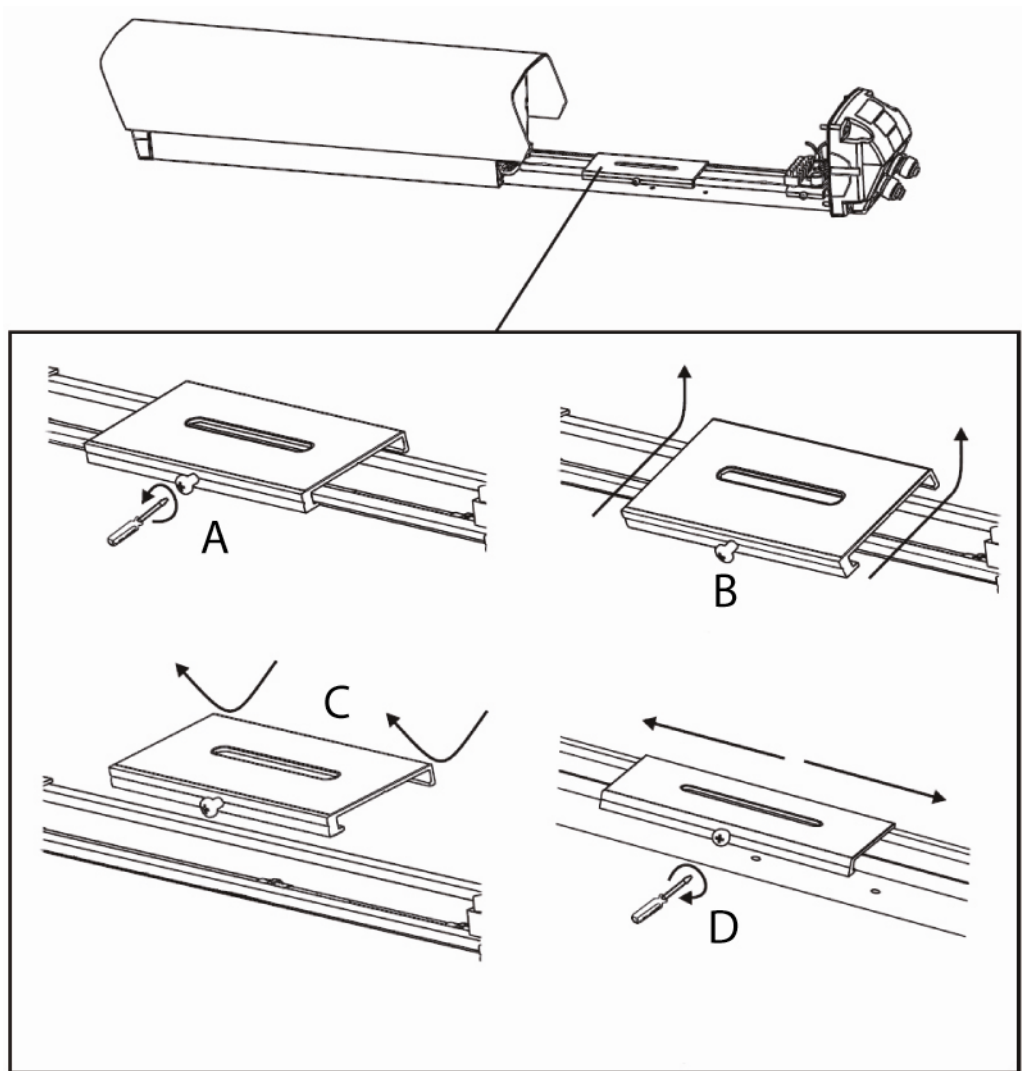


Fig. 5 Mounting the Camera and Lens Assembly

5.4 Mounting the Camera Housing Assembly

The housing has a set of 4 x M6 x 10 mm deep tapped holes on a 101.6mm (4") PCD for mounting the camera housing to a bracket. Ensure the screws used to mount the housing to a bracket do not bottom out in the mounting holes by being too long.

1. Screw the mounting bracket to the base of the unit **(A)** (see Fig. 6).
2. Secure the assembly following the bracket installation instructions.

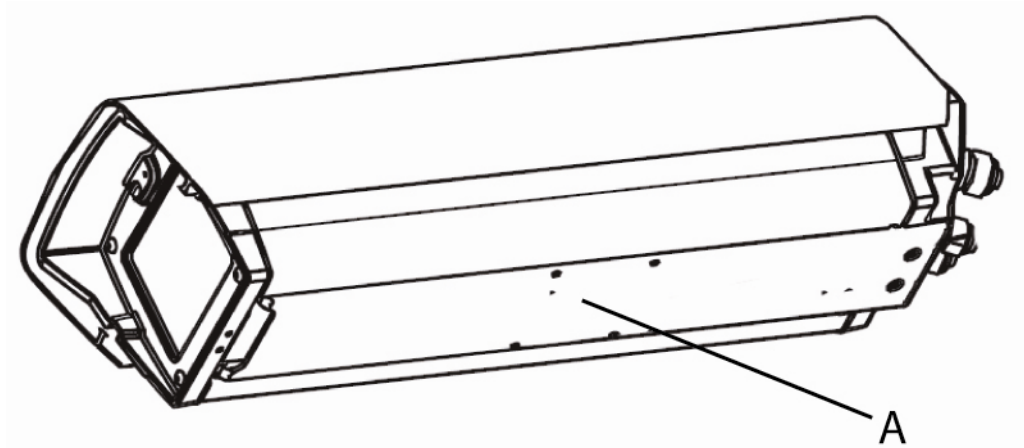


Fig. 6 Mounting the Camera Housing Assembly

5.5 Connecting to the Power Supply



IMPORTANT

Please read the 'Safety' section on Page 5 before connecting to the Power Supply.



IMPORTANT

All wiring must be installed to local and national standards. Ensure all SELV and signal wiring is kept away from live parts and is suitably protected from live parts by double insulation.



CAUTION

A readily accessible all-pole disconnect device with at least 3 mm contact separation shall be incorporated in the building installation wiring. As part of the building installation, protect the unit via a fuse or circuit breaker rated at 2 A for CHSL4010 110 – 230 V AC units and 5 A for CHSL4011 12 – 24 V AC units.



NOTE

Use only cable suitable for the application and that meets the standards required by the installation. The conductor size for power cable(s) must be at least 0.75 mm². The maximum recommended conductor size is 1.5 mm².

1. Select the most suitable cable gland entry, (see section 3.1 for sizes) and remove the blanking plug supplied in the gland **(A)** (See Fig. 7).
2. Insert the mains cable and clamp it securely using one of the cable anchors **(B)**. The central anchor point is for larger cables, the two outer ones are for smaller cables. Do not overtighten the screws as this may damage the cable.
3. Connect to the input supply on terminal board **(C)**.

Indicator	Description
L	Live (Brown)
N	Neutral (Blue)
E	Earth (Green/Yellow)

4. Tighten all glands/conduits **(A)** securely to prevent water ingress.

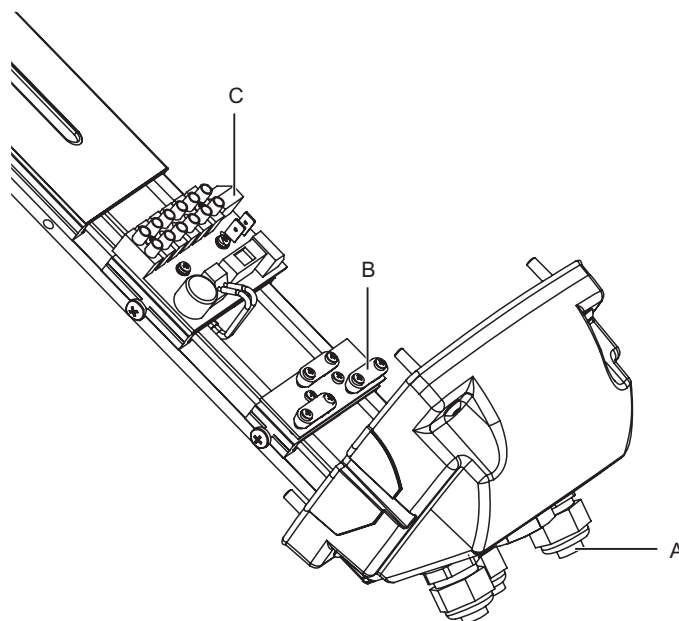


Fig. 7 Power cable entry

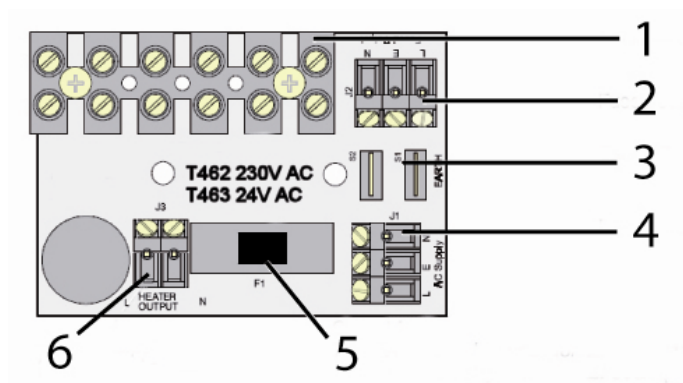


Fig. 8 Terminal board connection details

1	Ancillary Connections Block
2	Fused Output
3	Earth (Gnd)
4	Input Supply Terminal
5	Fuse F1 2 A 250 V AC 5x20 Type (T), HBC for T462 5 A 250 V AC 5x20 Type (T), HBC for T463
6	Heater Output (pre-wired and connected through fuse F1)

6 Maintenance and service

The following maintenance guidelines should be observed.

Cleaning	Use only soap and water to clean the housing and pane - no abrasive solvents. Additional protection can be applied to the pane to reduce contamination and droplet formation from moisture or rain. Products from the automotive or cleaning industry which use nanotechnology to reduce surface energies and thus contamination and moisture build-up can be used for this purpose.
6 monthly checks	1. All fastenings and cables should be checked for tightness and wear. 2. Regular checks should be performed to ensure that the outer sheaths of the cables are not damaged and that the cables are not fouling on any obstruction.



NOTE

This installation guide cannot cover all conceivable cases of installation, operation or maintenance. Should you require further information or should special problems occur which are not discussed in adequate detail in the installation guide, please request the required information from your local Siemens office.

We must also point out that the contents of this installation guide do not constitute a part of an earlier or existing agreement. Neither do they constitute or amend any earlier or existing commitment or legal relationship. All obligations on the part of Siemens result from the relevant purchase agreement which also contains the complete and solely valid warranty regulations. This installation guide neither extends nor restricts these contractual warranty regulations.

7 Disposal



All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.

This crossed-out wheeled bin symbol on the product means the product is covered by the European Directive 2002/96/EC.

The correct disposal and separate collection of your old appliance will help prevent potential negative consequences for the environment and human health. It is a precondition for reuse and recycling of used electrical and electronic equipment. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

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