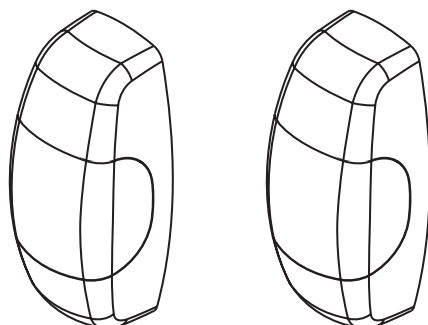


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## 772ANZ IR Beams

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## 1 FUNCTION

The 772ANZ is a photocell, consisting of a transmitter (TX) and a receiver (RX), with a special evaluation and can be used only with appropriate Chamberlain products (garage door openers and/or swing and sliding gate operators).

The transmitter (TX) sends an infrared beam to the receiver (RX). An interruption of the infrared beam is detected and transmitted to the controller.

**A perfectly functioning photocell serves only to identify persons or objects in the door area and does not ensure absolute safety from other hazards arising from the door/gate movement. If necessary, take additional protective measures.**

**NOTE: Cable required for installation - min 2 x 0.5 mm<sup>2</sup>.**

## 2 INSTALLATION OF GARAGE DOORS (Sectional doors, overhead doors)

**For the protection of young children, the photocell should not be installed higher than 100 mm above the garage floor.**

The sensors have to be fastened securely to a fixed component (e.g. post, wall). Make sure that the infrared beam is not interrupted during the closing process later by parts of the door (e.g. rails, rollers, springs, etc.). If this is not ensured, upright columns (optional accessories) should be used (Fig. 8).

Transmitter and receiver have to be attached parallel to the closed door at a height of 100 mm and precisely aligned to each other (Fig. 4 + 5).

**Operation: When the infrared beam is interrupted during the closing process, the door stops and reverses completely.**

## 3 INSTALLATION OF SWING AND SLIDING GATES

**For the protection of young children, the photocell should not be installed higher than 200 mm - 250 mm above the entrance.**

The sensors must be secured on a fixed component (door pillar) and outside of the movement range of the gate wings (swing gates). If this is not ensured, upright columns (optional accessories) should be used (Fig. 8). Transmitter and receiver have to be attached parallel to the closed gate at a height of 200 - max. 250 mm and precisely aligned to each other (Fig. 3a).

**Note:** Controllers of the swing and sliding gates allow the connection of multiple pairs of photocells.

**Operation:** When the infrared beam is interrupted **during the closing process**, the gate stops and reverses completely. When the infrared beam is interrupted **during the opening process**, the gate stops. Any subsequent functions are dependent on the type of controller used for the swing or sliding gate.

**Attention:**

- Installations on slopes or slanted driveways require very precise work.
- Avoid cable lengths of more than 10 m.
- Low angle sunshine or under-sized cables can greatly reduce the range.
- If 2 photocells are installed close to each other with little distance between them (e.g. for sliding gates), the receiver and transmitter should not be mounted on the same side of the entrance, or else one transmitter (TX) can influence both receiver lenses.

## 4 ASSEMBLY

**Before installing the photocell, the power supply must be shut down.**

1. Press in the latch with a suitable screwdriver and open the housing (Fig. 1).  
This snap mechanism enables quick installation. Keep the housing open during the installation so that the diagnosis of the LED can be seen.
2. Mount and align transmitter and receiver accordingly. Use at least 2 screws for attaching the transmitter and receiver, and ensure that the cable routing is executed properly (Fig. 6).  
Align the sensors in such a way that the lenses precisely face each other parallel to the door. There is a bracket for the lens inside the 772ANZ, which enables an optional alignment (Fig.3b). After alignment, tighten the two screws (8) (Fig. 7).
3. The connection cable must be laid in accordance with local building and electrical regulations. High and low voltage lines are not to be laid together in a single cable; it leads to malfunction.
4. Connect the cable (min. 2 x 0.5 mm<sup>2</sup>) to the terminals according to the controller.
  - a. Garage door opener: Selection of the model based on the images (a-f). The connection is done according to the wiring diagram.
  - b. Swing and sliding gate operators: Selection of the model based on the images (g-m). The connection is done according to the wiring diagram.
5. After connecting the photocells, operate the drive.
  - a. LED on both transmitter and receiver lights up, if the connection and alignment were executed properly.
  - b. LED flashes on transmitter and receiver, if the infrared beam is interrupted, or if the alignment is not correct. Remove obstruction or re-align until the LEDs stop flashing.
6. Close the housing of the photocell.

## 5 INITIAL OPERATION AND TESTING OF PHOTOCELLS

**NOTE: The opener will automatically detect the Protector System™ when it is installed and operating for 5 minutes (during this time the beams must remain unobstructed). The opener will not close unless the beams are aligned.**

- Open the door with the remote control or a switch.
- Place an obstacle between the transmitter and receiver to interrupt the infrared beam.
- Operate the remote control or switch again to start the closing process. The garage door must not close now, since the infrared beam is interrupted. There is a red LED below the housing of the 772ANZ (which is not visible with closed housing), which flashes when the infrared beam is interrupted, thus indicating that there is an obstacle between the transmitter and receiver, or that the lenses are not aligned correctly. **If the garage door/gate closes even if the infrared beam is interrupted by an obstacle or if the transmitter and receiver are not aligned correctly, the system must be checked immediately by an authorised technician.**

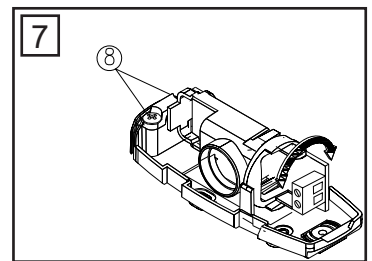
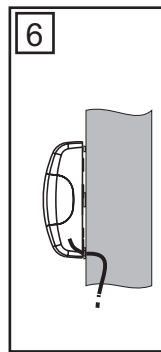
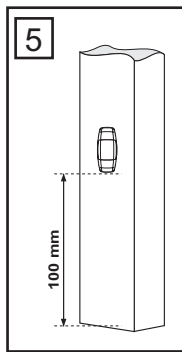
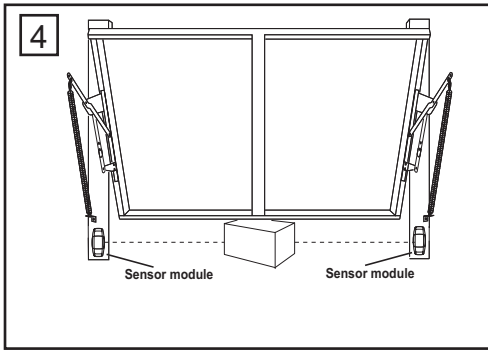
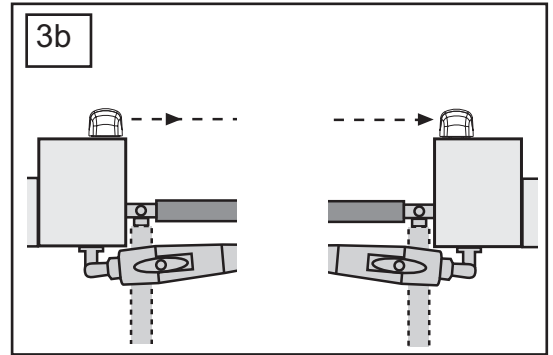
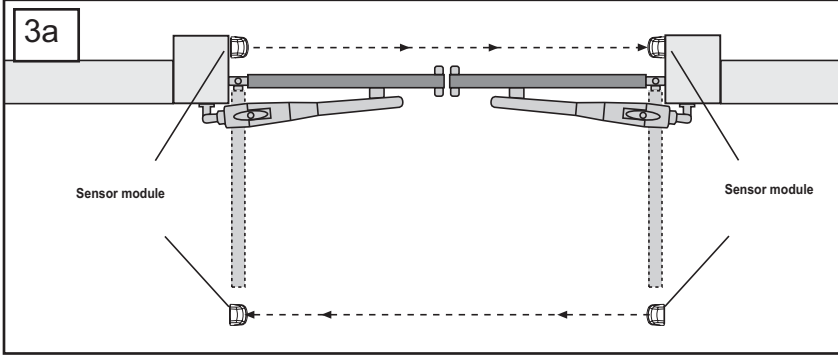
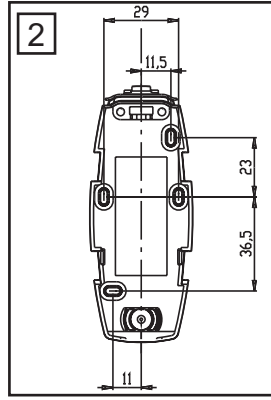
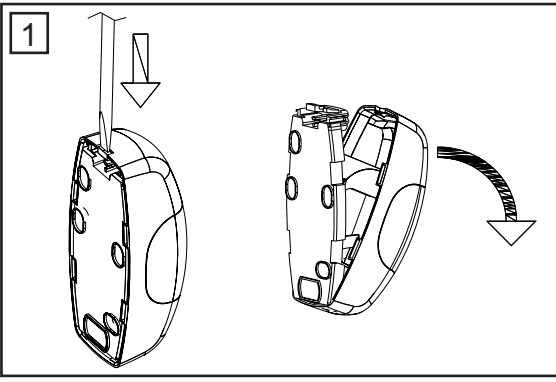
## 6 TROUBLESHOOTING

The LED indicator on transmitter and/or receiver does not light up after installation. Check the following points:

- Power supply of the system
- Potential short-circuit
- Incorrect cable connection between sensor and controller
- Broken or missing cable
- Polarity of the cables are interchanged

## 7 TECHNICAL DATA

Protection class:	IP44
Temperature range:	- 20°C + 70°C
Range:	15 m



**8** optional

