DIW 01
DIW 03-DIW04
CORDLESS PHOTOCELL
INSTALLATION MANUAL

"IMPORTANT SAFETY INSTRUCTIONS FOR INSTALLATION"
"CAUTION: IMPROPER INSTALLATION MAY CAUSE SERIOUS DAMAGE, FOLLOW ALL INSTALLATION INSTRUCTIONS CAREFULLY"
"THIS MANUAL IS ONLY FOR PROFESSIONAL INSTALLERS OR QUALIFIED PERSONS"

Legend of symbols
 Dise This symbol indicates sections to be read with particular care.
 ! This symbol indicates sections concerning safety
 !-- This symbol indicates notes to communicate to users.

Reference Standards
with the following standards:
EN 12978, UNI EN 954-1, CEI EN 60335-1, UNI EN 12453.

Description of devices
Designed and manufactured by CAME CANCELLI AUTOMATICI S.p.A. in compliance with the safety regulations in force S.p.A.

DIW01
Protection device Made up of two units:
- 12/24v AC/DC Infrared receiver. 1 led to signal that battery is run down (when the led on the receiver flashes, this means that the batteries' charge will completely run down in about a month)
- Battery powered infrared transmitter (works on four 1.5V AAA batteries)

DIW03
- Infrared repeater, made up of a central transmitter photodiode and two lateral receiver photodiodes, with dip switches for selecting receiving side.
  Battery powered (works on four 1.5 AAA batteries)

DIW04
- Infrared repeater, made up of a central photodiode receiver and two lateral, transmitting photodiodes, with dip switches for selecting the emitting side.
  Battery powered (works on four 1.5V AAA batteries)
Technical data

DIW01 (TX)
Power supply: (4 1.5V AAA batteries)
Draw: 70 µA
Degree of protection: IP 54
Material: PC-ABS UL94V0 / Policarbonato / Marpram mar TPA1 65 NT
Working temperature: 20°C to 55°C

DIW01 (RX)
Power supply: 12/24 V.A.C. - D.C.
Draw: 48 mA
Degree of protection: IP 54
Material: PC-ABS UL94V0 / Policarbonato / Marpram mar TPA1 65 NT
Working temperature: 20°C to 55°C

Ripetitore DIW03
Power supply: (4 1.5V AAA batteries)
Draw: 70 µA
Degree of protection: IP 54
Material: PC-ABS UL94V0 / Policarbonato / Marpram mar TPA1 65 NT
Working temperature: 20°C to 55°C

Ripetitore DIW04
Power supply: (4 1.5V AAA batteries)
Draw: 70 µA
Degree of protection: IP 54
Material: PC-ABS UL94V0 / Policarbonato / Marpram mar TPA1 65 NT
Working temperature: 20°C to 55°C

Dimensions and holes pitch

Receiver/Transmitter/Repeater

Installation

⚠️ Before installing you must:
- Make sure that the line voltage is disconnected.
- See that the point, to which the equipment will be mounted, is in an area protected from any impacts, that the mounting surface is solid, and that the mounting on to the surface is carried out with the proper hardware (bolts, pins, etc).
- Provide for proper electrical cable conduits making sure that they are free from any mechanical damage.

Description/Electrical connections and DIP switch functions

DIW01 (TX)
1-Battery housing
   (four 1.5V AAA batteries)
2-Infrared led

DIW01 (RX)
1-Signal present warning led
2-Dip Switch
Dip Switch function
Dip switch 1 in ON position = 12V AC/DC power supply
Dip switch 1 in OFF position = 24V AC/DC power supply
Dip switch 2 in OFF position = Excludes testing of service function
   (to be used when TS?? is not connected)
3-Low battery/open contact warning led
4-Terminal board for connections
Example of a standard installation and relative Dip Switch configuration

DIW01 (TX)
1. Battery housing
   (Four 1.5V AAA batteries)
2. Infrared led, selectable through the DIP switch
3. Low battery warning led
4. Dip switch for selecting transmission led

DIW01 (RX)
Does NOT require configuration

DIW04
Dip 1 set to ON
Dip 2 set to OFF

DIW03
Dip 1 set to OFF
Dip 2 set to ON

* With DB-L/DB-LN columns
** With G02802 photocell support

Assembly

Make sure that the distance between the two photocells is not greater than 10 metres, and that they are perfectly aligned, before installing. Now mount the bases of the photocells, using proper screws that suit the attachment structure (max. Ø 6 mm). Insert the batteries (you will need four 1.5V AAAs) into the transmitter and the repeaters making sure the polarity matches that shown on the card. Set the LEDs to (ON/OFF) depending on the make up of the system. Fasten the transmitters/repeater using the screws provided.

Carry out the connections for the receiver/s as shown in fig. B.

Note: When using DIW01, DIW03 and DIW04, as explained in the two preceding configurations, remember to remove the bridge on DIW01 (TX)
Problems

- The led on the receiver is flashing: the transmitter battery is run down.
- The led on the receiver stays on: signal is interrupted due to transmitter malfunction.

Demolition and disposal

Product disposal
Our products are made up of various types of materials. Most of them (aluminium, plastics, iron, electrical wires, etc.) may be disposed of in normal garbage collection bins and can be recycled by disposing of in specific recyclable material collection bins and disposal in authorized centres.

Other components (electrical boards, remote control batteries, etc.), however, may contain polluting substances. They should therefore be removed and given to qualified service companies for proper disposal.

Prior to disposal, it is always advisable to check specific regulations in force in the place of disposal.

PLEASE DISPOSE OF PROPERLY!

Manufacturer’s declaration

Declaration of conformity

la CAME CANCELLI AUTOMATICI S.p.A.
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Declare under their own responsibility that the following products for gate and garage door automation called:

DIW01- DIW03-DIW04

Are compliant with essential requirements and with pertinent regulations established by the following directives and to the applicable parts of the standards listed below:

- Electromagnetic compatibility directive 89/336/EEC - 92/31/EEC
- Electrical equipment designed for use within certain voltage limits directive 73/23/EEC - 93/68/EEC
- Machinery directive 98/37/EC

EN 61000-6-2
EN 61000-6-3
EN 12978
EN 60529
EN 954-1

L'amministratore delegato
Stg. Andrea Manuzzo

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Per assistenza e informazioni tecniche

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800-295830

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