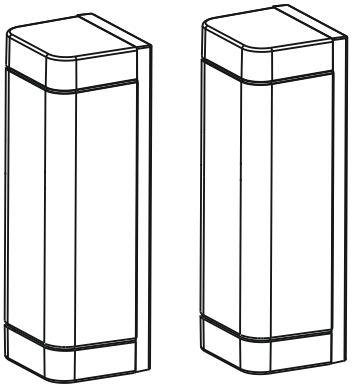


:DCF

DCF180DB - (AU02020)

Digital photocells
INSTRUCTIONS FOR INSTALLATIONS

UK

DCF180DB

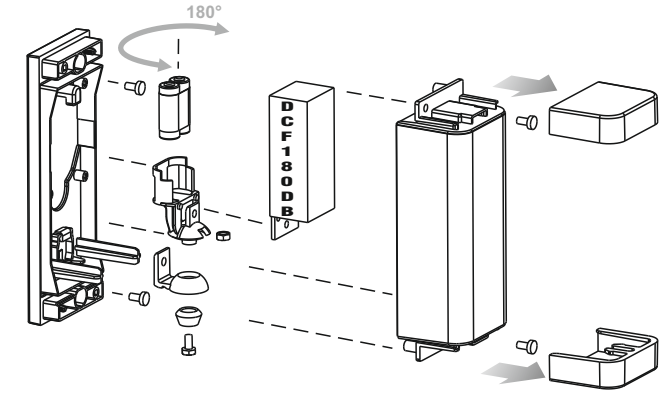
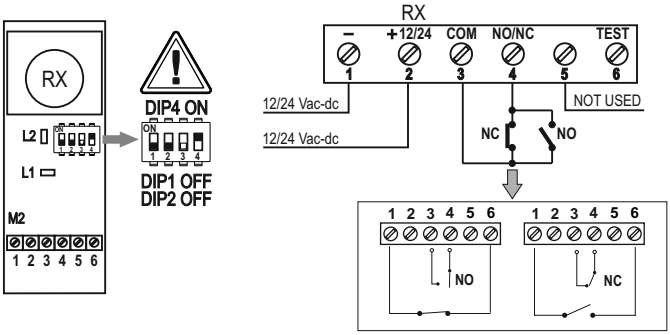


FIG. 1



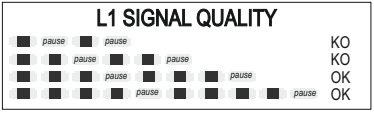
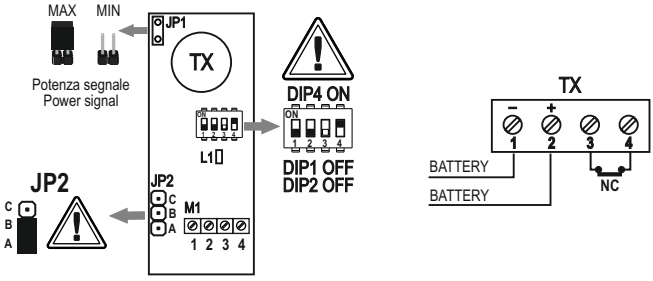


FIG. 2


MAX
MIN
JP1
TX
Potenza segnale
Power signal
DIP4 ON
DIP1 OFF
DIP2 OFF
L1
JP2
C
B
A
M1
1 2 3 4
TX
1
2
3
4
BATTERY
BATTERY
NC

UK

TECHNICAL SPECIFICATIONS

Model/Item	DCF180DB / AU02020	
Range	30 m (12 m, external)	
Signal	Impulse signal, unmodulated	
Infrared frequency	100 Hz ÷ 1 Khz	
Relay power	0,5A 48Vac/dc	
Power supply	TX: 2 x AAA 1,5V	RX:12/24 V dc/ac
Absorption	TX: 0,04mA÷ 0,12mA	RX: 35mA
Operating temperature	-20 ÷ +60 °C	
IP	54	

Thank you for choosing GI.BI.DI.

PLEASE READ CAREFULLY THIS MANUAL BEFORE PROCEEDING WITH THE INSTALLATION.

- Before proceeding with installation, fit a magnetothermal or differential switch with a maximum
- Make the connections referring to the following tables and to the attached screen-print. Be extremely careful to connect in series all the devices that are connected to the same N.C. (normally closed) input, and in parallel all the devices that share the same N.O. (normally open) input. Incorrect installation or improper use of the product may compromise system safety.
- Keep all the materials contained in the packaging away from children, since they pose a potential risk.
- The manufacturer declines all responsibility for improper functioning of the automated device if the original components and accessories suitable for the specific application are not used.
- After installation, always carefully check proper functioning of the system and the devices used.
- This instruction manual addresses persons qualified for installation of "live equipment". Therefore, good technical knowledge and professional practice in compliance with the regulations in force are required.
- Maintenance must be carried out by qualified personnel.

WARNINGS: This product has been tested in GI.BI.DI. verifying the perfect correspondence of the characteristics to the current directive.

Gi.Bi.Di. S.r.l. reserves the right to modify the technical data without prior notice depending on the product development.

DISPOSAL: GI.BI.DI. advises recycling the plastic components and to dispose of them at special authorised centres for electronic components thus protecting the environment from polluting substances.

UK

INSTALLATION

Fix the photocells and make connections as shown in **Fig. 1** (RX) **Fig. 2** (TX). Cover the photocell with the front part and secure with the screws provided. Pass across the photocell range several times, to check relay response.

FUNCTIONING

The DCF180DB photocell has been designed mainly for use with sliding gates, which eliminates the need for a mobile frame. The device can also be used as a normal photocell in all cases where the transmitter cannot be wired. **The receiver must be positioned so that it is not disturbed by other photocells.**

Transmitter operation
The transmitter has a jumper (J1) for power selection. To decrease the photocell range (down to 10 m) open the jumper(J1). The flashing red LED L1 indicates proper transmitter operation.
The transmitter must be powered with 3V alkaline batteries. Each battery lasts on average 24 months in normal power conditions (jumper (J1) disabled) or approximately 12 months in high power conditions (jumper enabled). **This duration is valid for optimal climatic conditions and optimal conditions of use; variations in climatic conditions and improper use will reduce battery life**.

The power supply of the transmitter with a battery can reduce the transmission, in such cases the receiver can be interferated from infrared rays. To avoid this inconvenience, put the DIP 3 in OFF (RX).

Receiver operation
The receiver has 2 LEDs. The first LED (L1), indicates proper signal reception (the signal is being received if the LED is on), while the second LED (L2) only flashes when the signal is present (otherwise it is off). The time the LED is on indicates signal quality. So the longer the LED is on, the better quality signal.
The receiver must be powered with a 12 or 24 V DC (check polarities are correct), or AC power supply.
If this photocell is used for a range of less than 2 m, the lens should be removed and the J1 power jumper on the transmitter opened.

IMPORTANT: transmitters of other photocells must be positioned so that their band does not directly face the receiver of the battery-operated photocell. If the above is not observed, normal operation is not guaranteed.

Dichiarazione di conformità UE

Il fabbricante: GI.BI.DI. S.r.l.
Via Abetone Brennero, 177/B,
46025 Poggio Rusco (MN) ITALY

Dichiara che i prodotti: **DCF180DB**
Sono conformi ai seguenti regolamenti:

- **EMC 2014/30/UE**
- **LVD 2014/35/UE**

e che sono state applicate le seguenti norme:

- **IEC 61000-6-2 : 2016 RVL**
- **IEC 61000-6-3 : 2020**
- **IEC 60335-1**

Data 03/04/20

Il Rappresentante Legale
Michele Prandi

UKCA Declaration of conformity

The manufacturer: GI.BI.DI S.r.l.
Via Abetone Brennero, 177/B,
46025 Poggio Rusco (MN) - ITAL

Declares that the products: DCF180DB

Are in conformity with the essential requirements and other relevant requirements of:
Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012
Electrical Equipment (Safety) Regulations 2016
Radio Equipment Regulations 2017
And that the following harmonised standards have been applied:
EN 301 489-1 V2.2.0; EN 301 489-3 V2.1.1; EN 300 220-2 V3.2.1; EN 62479:2010; EN 60950-1:2014;

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Date: 03/04/20

The legal Representative
Michele Prandi

EU manufacturer declaration: The EU declaration is available at: http://conformity.gibidi.com

Cod. AIC0590 - 05/22 - Rev. 01

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