





:DCF

CER

DCF180D - (AU02010)

Digital photocells INSTRUCTIONS FOR INSTALLATIONS

DCF180D



FIG. 1













FIG. 3



UK

TECHNICAL SPECIFICATIONS

Model/Item	DCF180D / AU02010
Range	30 m (12 m, external)
Signal	Impulse signal, unmodulated
Infrared frequency	100 Hz - 1 Khz
Relay power	1A 24V
Power supply	12/24 V DC/AC
Absorption	TX / RX 35mA÷ 40mA
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.

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Make connections as shown in Fig. 1 (RX) Fig. 2 (TX). Secure and power the photocell 12 - 24 Vac-dc. 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 DCF180D photocell can be installed in groups, without interference between the photocells. Each transmitter and receiver has a 4-way dip switch which assigns a different number to each pair of photocells. (see Table)

Photocell pair numbering						
Number	Setting DIP (1-2-3-4)					
0	OFF	OFF	OFF	OFF		
1	ON	OFF	OFF	OFF		
2	OFF	ON	OFF	OFF		
3	ON	ON	OFF	OFF		
4	OFF	OFF	ON	OFF		
5	ON	OFF	ON	OFF		
6	OFF	ON	ON	OFF		
7	ON	ON	ON	OFF		

WARNING: Pairs of photocells must not have the same number.

IMPORTANT: to ensure operation, as described, the system must not be disturbed by the infrared bands of different types of photocell. Transmitter operation

The transmitter has a jumper (JP1) for power selection. To decrease the photocell range (down to 10 m) open the jumper(JP1). The flashing red LED L1 indicates proper transmitter operation.

Receiver operation

The receiver has 2 LEDs. The first LED (L1), below the 4-way dipswitch, 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.

If this photocell is used for a range of less than 2 m, the lens should be removed and the JP1 power jumper on the transmitter opened. With this photocell, operating speed can be selected by simply setting the combination number of the 4-way dip switches. The higher the "number" set (from 0 to 7, see the table), the slower the operating speed (from 30 ms to 150 ms).

WARNING:

If more photocells pairs are used (max. 8 pairs), the following steps are necessary in order to grant the correct synchronism:

- Set at least a photocells pair with the code 0 (Dip 1 OFF; Dip 2 OFF; Dip 3 OFF; Dip 4 OFF)
- · Connect in series all the clamps nr. 4 (SYNC) of the transmitters
- -In case the transmitters are powered in AC, the connection of the terminals 1 and 2 should be the same for all transmitters (pole A for terminal 1 and pole B for terminal 2).



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Dichiarazione di confor	mità UE			
Il fabbricante:	Il fabbricante: GI.BI.DI. S.r.I. Via Abetone Brennero, 177/B, 46025 Porgrip Rusco (MM) ITALY			
Dichiara che i prodotti: DCF180D 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		Il Rappresentante Legale		
Data 03/04/20				
UKCA Declaration of co	onformity	•		
The manufacturer:	GI.BI.DI S.r.I. Via Abetone Brennero, 1 46025 Poggio Rusco (MI	77/B, \) - ITAL		
Declares that the products: DCF180D				
Are in conformity with 1 Restriction of the Use of Regulations 2012 Electrical Equipment (Sal Radio Equipment Regula And that the following 1 EN 301 489-1 V2.2.0; EN EN 60950-1:2014;	the essential requirements Certain Hazardous Substand fety) Regulations 2016 tions 2017 narmonised standards hav I 301 489-3 V2.1.1; EN 300	and other relevant requirements of: ces in Electrical and Electronic Equipment re been applied: 220-2 V3.2.1; EN 62479:2010;		
This declaration of conformity is issued under the sole responsibility of the manufacturer.				
Date: 03/04/20				
		The legal Representative Michele Prandi		
		۷ ,		

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



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