P45 12/24

EXTERNAL MINIATURIZED PHOTODEVICE WITH MODULATE LIGHT AND TWO RELAYS (UNI 8612 RULE)

DESCRIPTION

Compact and reliable external photodevice, made up:of a receiver and a transmitter with infrared modulated light.

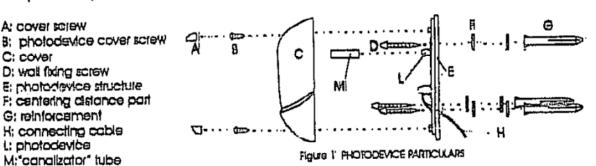
- synchronism circuit, which allows the installation of two couples of transmitters and receivers without any Interferences of signals
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- selectable 12/24V tension of supply

USE POSSIBILITY

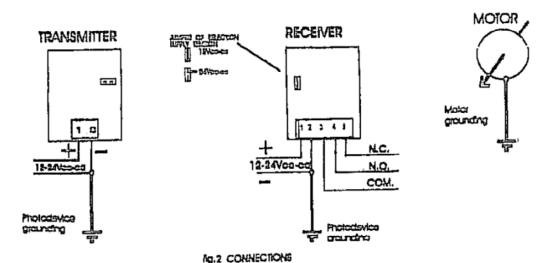
It is employed in the alarm systems, for the protection of doors, gates and any other automating 00008898..

INSTALLATION AND ALIGNEMENT!

- 1) Take down the cover of the photodevices (see figure: 1)
- Effect the connection as shown in fig. 2, paying attention to the tensions polarity in case of direct current or in case of synchronized way of two couples of photocelles The cables have to be cabled as shortest as possible avoiding they run next to interferences sources (f.e. motors).



TO IMPROVE THE INTERFERENCE IMMUNITY, UTILIZING THE SYNCHRONIZED PHOTODEVICE, IT IS NECESSARY TO GROWNTHE PHOTODEVICE AND MOTOR. THE GROWNING HAS TO BE MADE WITH THE SHORTEST CABLES , HAVING A SECTION OF AT LEAST 1.5 MM. ATTENTION:



SYNCHRONIZED WORKING

The synchronized working way is useful to install two couples of photodevices and to avoid that the transmitters and the receivers of others photodevices can interference.

These photodevices can be synchronized only if they are supplied with attempte current.

Supplying with direct tension the synchronism function is concelled, even if the jumper is on the "synchronized" position; it is therefore necessary to intall the receivers one opposite to the other one (as well the tansmitters) to avoid mutual interferences.

To obtain therefore the synchronized working, the photodevices have to be supplied as shown in the tigure 3, with 12/24Vac alternate tension, paying attention to the connections; it is necessary to deplace the jumper of the transmitter in the "Synchronized" position (see figure 2).

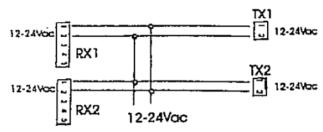
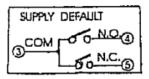
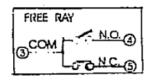
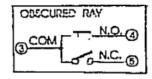


fig.3 SYNCHRONIZED WORKING

3) Connect the relay output contacts on the receiver according to the requirements. The flaure 4 shows the relays contacts setup.



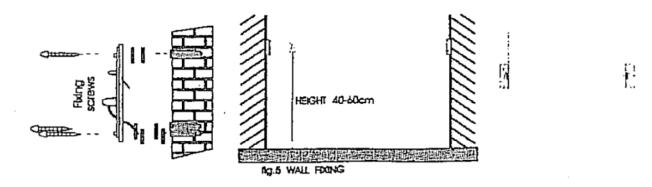




IIG.4 RELAY CONTACTS SETUP

4) As shown in the figure 1, fix the photodevice structure E on the wall, using the fixing screws D, the centering distance part F and the reinforcements G.

For a correct installation, the transmitter and the receiver have to be installed in frontal position and aligned on the same axle (figure: 5); it is necessary to operate on the fixing screws to obtain the best alignement of the transmitter and the receiver.

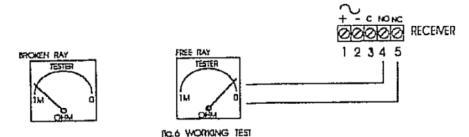


5) Select the requested range through the transmitter |umper as shown in the figure 2 (not available for the FT 98 ECO version), in the following way:

for distances of 5 metres or less; use the minimum range for distances longer than 5 metres; use the maximum range

- 6) Select the photodevice supply acting on the tension selection jumper. Chaice the 12/24V tension according to the available tension on the control unit.
- 7) It the distance between the transmitter and the receiver is lower than 4-5 metres, the presence of some refletting metallic parts next to the transmitter could create interferences to the system. In this case it is necessary to select the "minimum range" and/or insert the "canalizator" tube, of 5mm diameter, on the photodevice F of the receiver (see figure 1). It is necessary to consider that the use of the "canalizator" tube causes a range decreasing of about 30%.
- 8) Energize the photodevices with the selectioned tension.
- 9) Assemble the cover C, using the fixing screws B (see figure 1).

 Verify the correct working of the system, cutting more times the interposition of an obstacle between the transmitter and the receiver. Then verify the consequent commutation of the relays (see figure 6).



10) To adjust eventually the system alignement, take off the cover and operate on the fixing screws D (see point 4 of the preceding page).

TECHNICALS DATA

Supply tension	24Vdc +/- 20% or 24Vac +/- 20% 12Vdc +/- 15% or 12Vac +/- 15%	
FT 98 and FT 98 SINCRO range FT 98 ECO range	20m (10m with jumper selected on lower range) 10m	
Max current of relays output contacts Working temperature	1A a 24V -10°C +65°C	
Current absorption	Transmitter: max 40mA. Receiver: max 40mA	
Response time	30msec.	
Intrared Impulses frequency	400Hz	
Infrared wavelength	950nm	

Version	Range selection	Synchronized working	Tension selection
P45	Not present	Not present	present

ATTENTION.

In case of rain, fog or dust the photodevice range can decrease.

N.B. This product is adapt only for the open-gate application.

CURANTEE the monofocturer often a 12-months guarantee and products from the manufacture date on each product. The guarantees only valid to the record replacement of past recognised as being delective by the manufacturer each for lack of quality in the materials used or as a consequence of manufacturing fours. The guarantee does not cover damages or detects due to estend bouses, wong materials are product, as any course to which the manufacturer cannot be held responsible. The guarantee is not valid if the product has been improved with the death of the product has been formationably for language to down one material high cookies of responsibility for language reductions of non-functionings due to environmental interferences. The responsibility of the manufacturer for damages coused by occidents of only type que to the own defeative products is solely the responsibility provided to by the faction law.