## $D 45$ TD 24

EXTERNALI MINIATURIZED FHOTODEVICE WITH MODULATE LIGHT
AND TWO RELAYS (UNI 8612 RULE)
DESCRIPTIDN
Compoct and rellable external photodevice, mede upiof e recelver and a fransmifter with infrored modulated ilght.
with allows the installation of two couples af transmitters and recelvers without

- syrichronism clicult, which allows the instaliation of two couples af transmitters and recemers without any intarferences of fignals
- moximum solectabto rangettrougha |umper
- solsctable 12/24Vtenston a:|(suppy

USE FOSTBBILTY
It is amployad in the alarm evsterns, fot the protectiom of doort, gates and ary other automating accesnss..

INSTALLATION AND ALUGNEMENT!

1) Teka down the covis of the photodevices (fee Neure:1).
2) Effect the connection as shown in ifg. 2, poying attiention to the tenelons polority in case of difect curent or in case of sumchromized woy of two couples of photocalles
 ( $\mathrm{P} . \mathrm{e}$, motors).

A: coval bciaw
3: photod
C: cover
D: wall fixing ectew
Ei motodevice structule
Fi cantaring catance part
G: reinforcament
H ; connecting cable
L: photodeviles
M:"canalizetor" tube


Fique I' PHOFOEVKCE PARTCUKARS

## ATIENTION:

TOIMFRONE THE NTEREGPENCEIMMYUNTY, UIIIDNG THE SYNCHRONTED PHOTODEVCE, TIS NECESSARYTO GROWDTHE PHOTODEVCEAND MOTOR
THE GROUNLDING HASTOBE MADEMTHTTHE SHORTEST CABLES, HAMNGA SECTON OF ATEAST 1.5 MM.


SYNCHRONIZED WORIKING
the synchronized working way is useful to Install two couples of photodevices and to avold that the transmitlers and the recelvers of others phatodevices caninterferance.
These photodevices can be synchtonized onky they are supplied with altemate cutrent.
Supplying with direct tension the synchronlsm function is cancelfed, even if the Jumper is on the synctionized" position: It is theretore necessary to Intoll the receivers one opposite to the other one (as well the lansmitfers) to avold mutual interferences.

To oblain therelore the synchronized wotking, the pholodevices have to be supplied as shown in the tigure 3, with $12 / 24 \mathrm{Vac}$ alternate tension, paying attenlion to the connecilons; it is necessary to deplace the jumper of the transmilter In the "Symchronized" pastion (see figure2).

fig. 3 STNCHOCNEISD MORXAG
3) Connect the relay output contacts on the recelver according to the requlrements. The ligure 4 shows the relays contocts setup.

ng. 4 RELAY CONTACTS SETUP
4) As shown in the figure 1, fix the photodevice structure E on the wall, using the flxing screws $D$, the centering distarkee part $F$ and the reinforcements $G$.
For a corect installation, the fransmitter and the receiver have to be installed in frontal position and allgned on the same ade (figure-5); it is necessary to operate on the fixing screws to obtaln the best alignerment of the transmitter and the receiver.



Mg. 5 WALL FXUNG
5) Select the requested range through the transmitter furmper as shown in the figure 2 fnot avaliable for the FT 98 ECO version), In the followhig way:
for distances of 5 metres or less: ues the minimum range for distances longer than 5 rietres: use the madrusninage

아 Select the photodevice supply acting on the tension selection jumpel. Cnoice ine izizuv tuisul according to the avallable tenslon on the conitol unlt.
7) It the distance between the fransmititer and the receiver is lower than $4-5$ melres, the presence of some refletting metallic parts nexi to the transmitter coutd create interferences to the system. In this case it is necesscry to select the "minimum range" and/or insent the "canalizator" tube, of 5 mm diarmeter, on the photodevice $F$ of the recelver (see tlgure i).
it is necessary to considet that the use of ine "canallzator" tube causes a tange decteasing of about 30\%.
8) Energize the photodevices with the selectloned tension.
9) Assemble the cover C. Using the fixing screws B (see figurel).

Verify the cortect working of the sysiern, cutting more fimes the Infrared roy through the interposition of an obstacle bestween the transmilter and the receiver. Then verlfy the consequent commustation of the relays (see figure b).

10) To ad|ust eventurally the systern alignement, take off the cover and operate on the fixing screws D ( see point 4 of the preceding poge).

TECHNICALS DATA

| Supply fenston | $24 \mathrm{Vdc}+/-20 \%$ of $24 \mathrm{Vac}+1-20 \%$ $12 \mathrm{Vdc}+/-15 \%$ or $12 \mathrm{Vac}+/-15 \%$ |
| :---: | :---: |
| FI 98 and FT 98 SINCRO range | 20 m (10m with umper selected on lower rangel |
| FT 98 ECO range | 10 m |
| Max current of telays output contocts | 1 A a 24 V |
| Workng temperature | $-10^{\circ} \mathrm{C} \ldots+65^{\circ} \mathrm{C}$ |
| Current absorption | Transmitter: max 40mA. Recelver: max 40ma |
| Response firme | 30 msec. |
| Infrared Impuises frequency | 400 Hz |
| Infiared wavelenglh | 950 mm |


| Version | Range selection | Synchronized working | Tension selection |
| :---: | :---: | :---: | :---: |
| P45 | Not present | Not present | present |

ATENTION.
In cose of raln, fog or dust the photodevice ronge can decrease.

## N.B. Thls product is odapt only for the oper-gate opplacation.

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