



LINEAR

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DEA SYSTEM S.p.A.

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1. Product conformity

Linear is a CE marked product. DEA System assures the conformity of the product to

European Directives 2014/53/CE "RED" (EN 61000-6-2 :2005; EN 61000-6-3:2007 +

A1:2011).

This device is "D" type according to EN12453. DEA System also grants quality and

conformity to rule 2011/65/EU (RoHS) of materials used for the product assembly. The

Declaration of conformity may be viewed at: "<http://www.deasystem.com>".

In order to ensure an adequate safety level to the installation, it is advisable to conduct such inspections at intervals not exceeding 6 months.

2. Dangers and warnings

Read carefully: ignoring the following warnings may cause dangerous situations.

WARNING Exclusively qualified personnel must perform any operation of installation,

maintenance, cleaning or repairing of the whole automation. Always operate when main

power supply is disconnected and follow carefully all the laws, concerning electrical

installations, in the country where the installation is made.

3. Technical characteristics

Power supply

24 V~/---

"TX" Absorption

20 mA

"RX" Absorption

25 mA

Contacts capacity

500 mA max 24V

Assured distance

40 m (under optimal conditions)

20 m (in poor visibility conditions)

Maximum length of connection cables

50 m cable 2 x 0,5mm

Protection degree

IP54

Operating temperature

-20-55 °C

Dimensions/weight

125 x 40 x 44 mm / 100 g

4. Product description

Linear is a presence detector for automatic doors and gates consisting of a transmitter

device "TX" and a receiver "RX". In the case of installation of two pairs of photocells at close

range, you can set the mode of operation synchronized to prevent interference of the same,

without the need for cross devices "TX" - "RX". **The synchronized mode is available only if**

you use a power supply 24V.

The photocells provide an opportunity to orientation of 210° horizontally and 30° vertically

(Pic. 4), this can be fixed to surfaces that would normally prevent the correct alignment

between "TX" and "RX".

5. Assembly and wiring instructions

THE DISTANCE OF INSTALLATION FROM THE SOIL AND / OR FROM ANY OTHER PAIRS OF PHOTOCELLS, MUST BE AT LEAST 40cm.

WARNING Keep the cables separate from any other cable for connecting devices that can generate noise (motors, flashing lights, etc..) and which could jeopardize the proper functioning of the system.

Proceed as follows for the installation of the photocell Linear:

1. Remove the circuit holder from the photocell base so as to facilitate the operations of fixing at wall;

2. release the folding hole on the back of the photocell base (Pic. 1) and apply the supplied cables-gland;

3. fix the base on the wall by using the supplied screws and anchors (Pic. 2);

4. re-assemble the circuit holder on the base avoiding screwing too much the fixing screws;

5. Depending on the desired operation, refer to the wiring diagram 1 (non-synchronized

version) and 2 (synchronized version). In the latter case it is essential to respect the

polarity indicated (inverted for the two pairs of photocells). In each case, depending on the

type of operation, correctly set the selection jumpers (Table 1).

Table 1

Remote "TX"	Receiver "RX"
Non synchronised operating	JP1 Closed JP2 in pos. B
Synchronised operating	JP1 Open JP2 in Pos. A

6. Adjust lens direction (at 210° on horizontal axe and 30° on vertical one) to find the

optimal alignment, verifying the type of flashing LED on the "RX" (see Table 2. Lock the

circuit holder (Pic. 5);

WARNING In order to correctly align a pair of photocells, obscure or remove power to

all existing transmitters that would interfere. This procedure must be repeated for each

couple of photocells in the installation.

ATTENTION When aligning the photocells, it is very important to consider the presence

of reflective surfaces (metallic / glossy parts, possible pools of water) that could alter

the signal.

Pour l'installation de la photocelle Linear procéder comme il suit:

1. Enlevez le porte-circuit de la base afin de faciliter les opérations de montage au mur;

2. Percez le trou à l'arrière de la cellule (dessin 1) et connectez e câble fourni;

3. Fixez la base au mur en utilisant les vis et les chevilles fournies (dessin 2);

4. Replacez le porte-circuit sur la base en évitant de serrer les vis au maximum;

5. Selon l'opération souhaitée, se référer au schéma de câblage 1 (version non-synchronisée)

et 2 (version synchronisée). Dans ce dernier cas, il est essentiel de respecter la polarité

indiquée (inversé pour les deux paires de photocellules). Dans chaque cas, selon le type

d'installation connectez correctement les jumpers (tableau 1).

Table 2

Type of flashing	Photocell status
OFF	The 'RX' receives a good signal
Slow flashing	The 'RX' receives a poor signal
Speed flashing	The 'RX' receives a bad signal
ON	No signal

7. Close the shell with screws and install the caps hole (Pic. 5).

WARNING For the assembly and / or breakdown, always use the most appropriate

equipment meticulously following the rules in force in the country of sale.

6. Maintenance

A good preventive maintenance and regular inspection ensure a long product life. The

photocells Linear however, does not require any special control, simply check the condition

of the same (lack of moisture, oxides, etc...), clean the lens and the outer shell of the device

and perform a test to ensure proper functioning.

In order to ensure an adequate safety level to the installation, it is advisable to conduct

such inspections at intervals not exceeding 6 months.

6.1 Disposal

Linear Photocells are made of materials of various types, some of which can be recycled,

while others must be disposed.

Proceed as follows:

1. Remove the accessory from the power supply and disassemble in reverse order from that

described in "Installation";

2. Remove the electronic components;

3. Sorting and disposing of the materials exactly as per the regulations in the Country of sale.

WARNING In accordance with EU Directive 2012/19/EU on waste of electrical

and electronic equipment (WEEE), this electrical product should not be disposed

of as unsorted municipal waste. Please dispose of the product and bring it to your

local municipal collection for recycling.

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1. Conformité du produit

Linear est un produit marqué CE. DEA System assure la conformité du produit aux Règlements

européens 2014/53/CE "RED" (EN 61000-6-2 :2005; EN 61000-6-3:2007 + A1:2011).

Le dispositif est de type "D" conformément à la EN12453. DEA System assure aussi

la qualité et la conformité suivant la directive 2011/65/EU (RoHS) des matériaux utilisés pour

assembler le produit. La déclaration de conformité peut être consultée sur le site DEA en

tapant: "<http://www.deasystem.com>".

2. Dangers et avertissements

Lire avec attention; le non respect des avertissements suivants peut créer des situations

de danger.

ATTENTION Chaque opération d'installation, maintenance, nettoyage ou réparation de

l'installation doivent être exécutés seulement par du personnel qualifié. Opérer toujours

hors tension et se référer à toutes les normes en vigueur en matière d'installations

électriques dans le pays où l'automatisation est installée.

3. Caractéristiques techniques

Alimentation

24 V~/---

Absorption "TX"

20 mA

Absorption "RX"

25 mA

Capacité des contacts

500 mA max 24V

Distance garantie

40 m (dans les conditions optimales)

20 m (dans de mauvaises conditions de

visibilité)

Longueur maximale câbles de connexion

50 m câble 2 x 0,5mm

Degré de protection

IP54</