

■ PhotoceLLs are an active security optional device active during the closing phase of the gate .It prevents that the gate gets in contact with an obstacle that is trapassing the infrared light transmitted from the transmitter photoceLL to the receiver photoceLL.

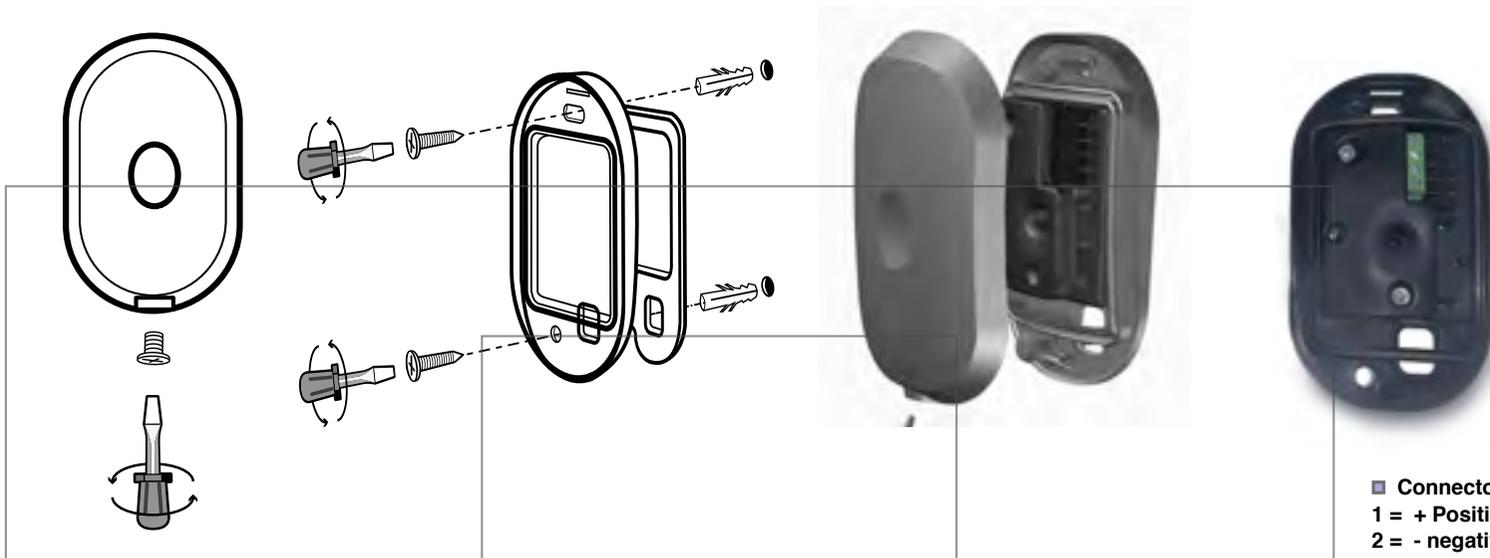
It is advisable to mount the photoceLLs at a height from the ground between 40 and 100 cm. PhotoceLLs can be installed directly on the pillar (without embedding) or on special support columns.

The obstacle is detected only if it is located between the infrared light beam between the two photoceLLs. The device is composed of a transmitter TX and receiver RX. The transmitter TX emits a modulated infrared light that is detected by the receiver RX, when this beam of light (invisible) is interrupted by the presence of an obstacle, a signal is sent to the electronic board and the doors reverse the direction of travel (this happens only in the closing phase.) Do not install the photoceLLs at a distance higher than 10m.

Model SW7012 or LASER 7012: pair of niversal photoceLLs u12 / 24V ac / dc

Models SW7120 or LASER 7120: pair of low consumption photoceLLs. special model to be used with Ducati solar powered openers (compatible with CTH44 electronic boards and CTH48) 12 / 24V ac / dc

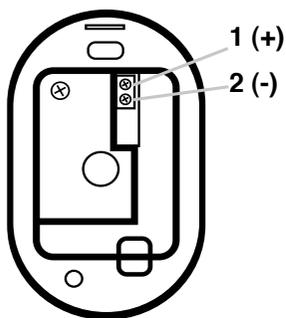
Unscrew the cover of the photoceLL to fix them to the pillar / column. It is mandatory to perfectly align the photoceLLs.



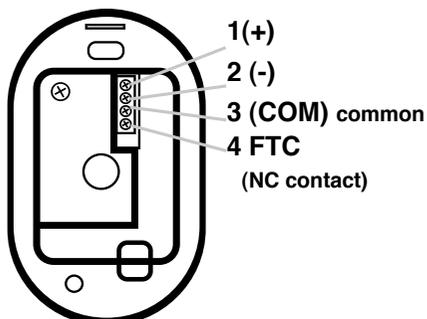
**Attention:** photoceLLs model 7012 & 7120 are aesthetically identical.

They shall be identified and distinguished by the label affixed to the back of the device. Moreover, the model is also indicated on the printed circuit of the RX photoceLL  
Caution: with CTH44 and CTH48 electronic boards powered by the solar panel is indispensable use of photoceLLs model 7120 in order to contain the consumption of the system. It is advisable, in such cases, to install a single pair of photoceLLs.

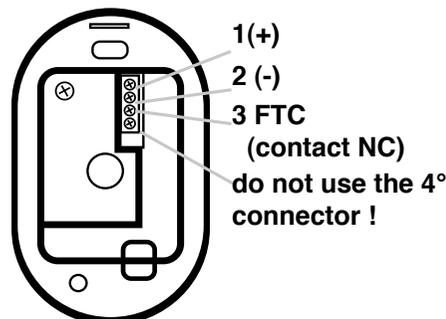
**TX (same in photoceLL model 7012 & 7120)**



**RX (model 7012)**



**RX (model 7120)**



■ **Connectors on photoceLLs 7012 & 7120**

**1 = + Positive power supply 12 / 24V AC / DC (for both models)**

**2 = - negative power supply 12 / 24V AC / DC (for both models)**

connect to the related terminal of the DUCATI's opener electronic board

**PhotoceLL RX (receiver) models 7012 (universal photoceLLs)**

**3 = common.** connect to COM ( common) terminal of the electronic board

**4 = FTC** normally closed photoceLL contact.

connect to the related terminal FTC of the DUCATI's opener electronic board

**PhotoceLL RX (receiver) models 7120 (low consumption photoceLL to be used on electronic boards CTH44 e CTH48):**

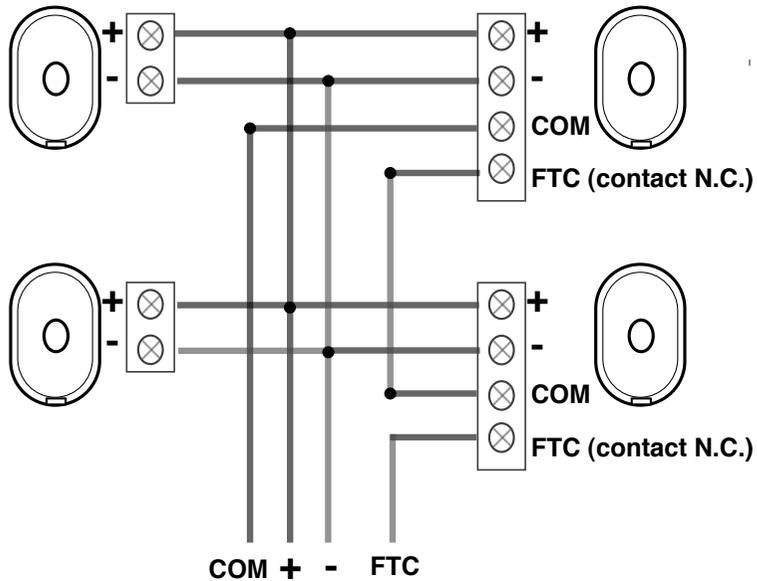
**3 =** Connect to the FTC normally closed (NC) terminal on the DUCATI's opener electronic board

(terminal 2 on electronic board CTH44 / terminal 6 on electronic board CTH48).

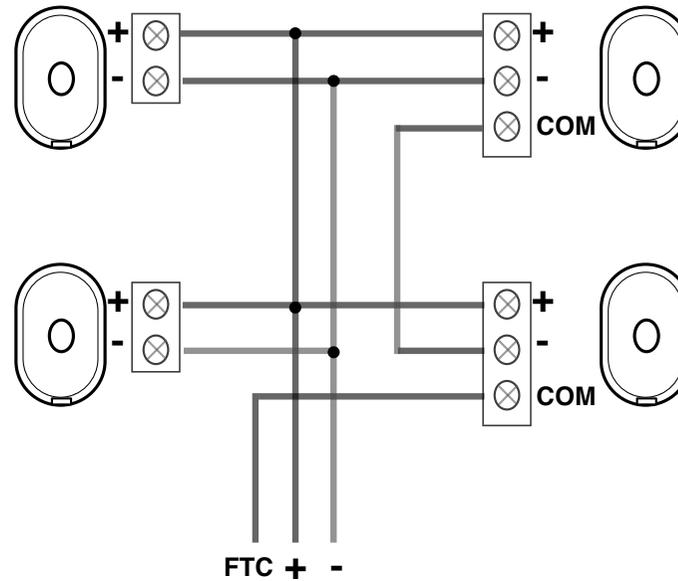
Attention: Do not use the 4th down terminal on the photoceLL RX 7120

**Warning:** by connecting the photoceLLs, the bridge that keeps closed the photoceLL contact must be eliminated.

How to connect more pairs of universal photocells model **7012**



How to connect more pairs of special low consumption photocells model **7120**



Model LASER 100: pair of photocells universal 12 / 24V ac / dc

Unscrew the cover of the photocell for fixing to the pillar / column. perfectly align the photocells.  
Place the photocells at a maximum distance of 10m from each other.

Wiring:

- 1 = - **negative power supply 12 / 24V AC / DC**
- 2 = + **Positive power supply 12 / 24V AC / DC**
- 3 = NO contact ( not to be used on DUCATI's opener's electronic boards)
- 4 = **common.** connect to COM ( common) terminal of the electronic board
- 5 = NC contact Connect to the FTC normally closed (NC) terminal on the DUCATI's opener electronic board

