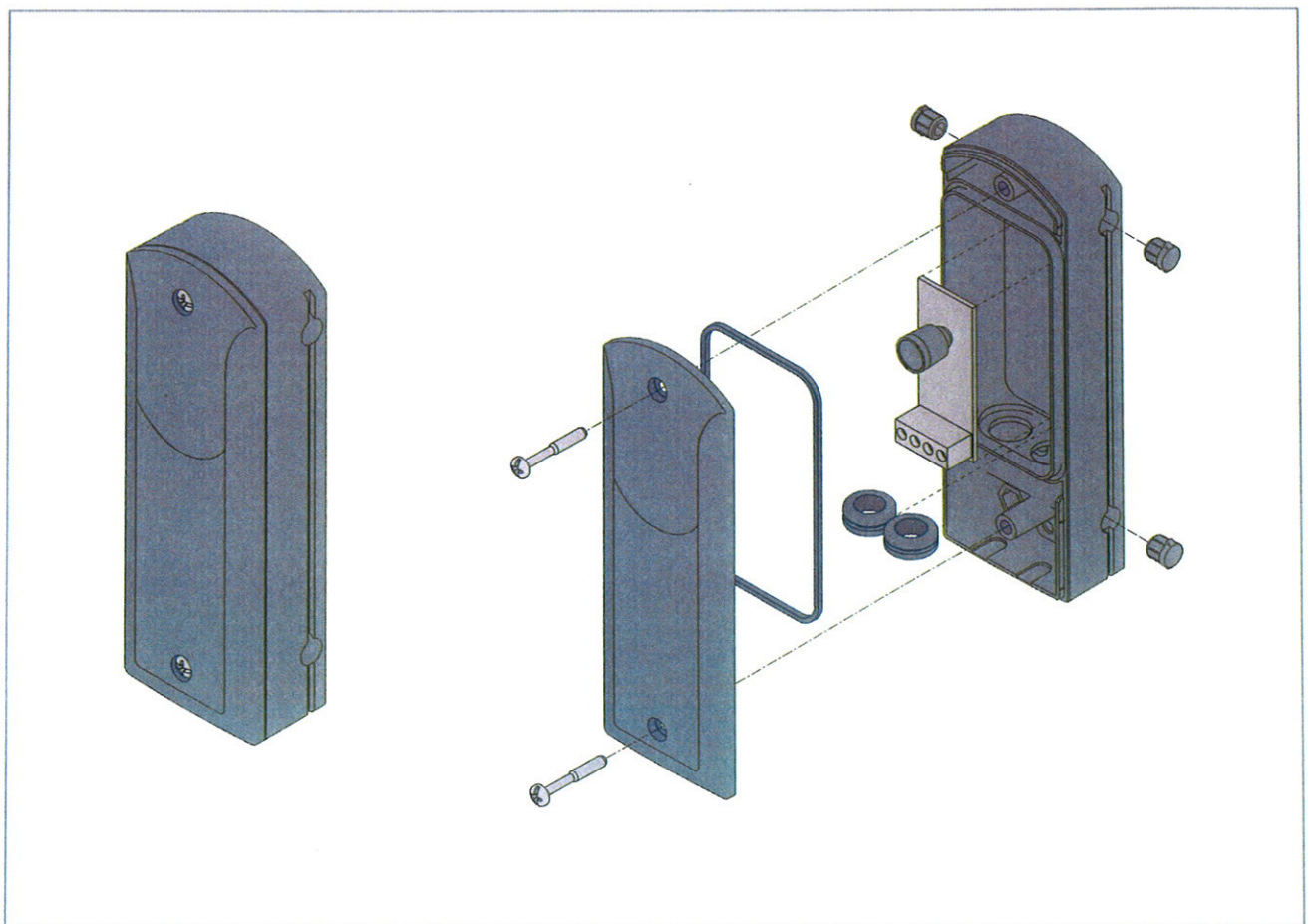


# Ditec LAB4

IP1936

Manuale di installazione per fotocellula LAB4.  
Installation manual for LAB4 photocell.  
Manuel d'installation pour cellule photoélectrique LAB4.  
Installationhandbuch für Lichtschranke LAB4.  
Manual de instalación para fotocélula LAB4.  
Manual de instalação para fotocélula LAB4.



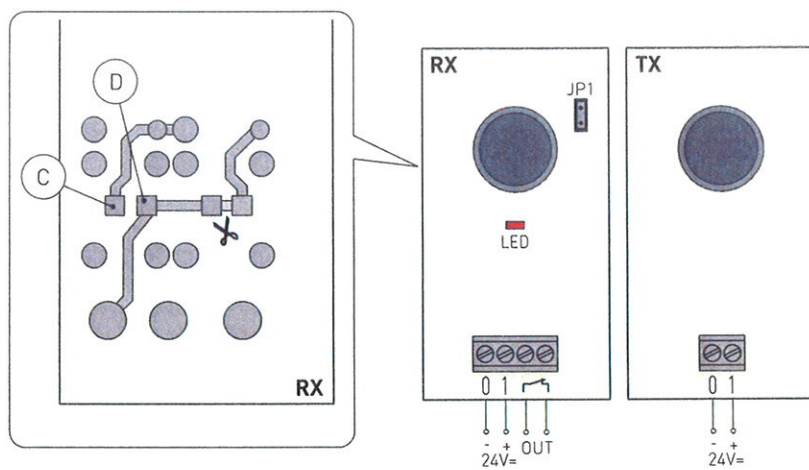


Fig. 1

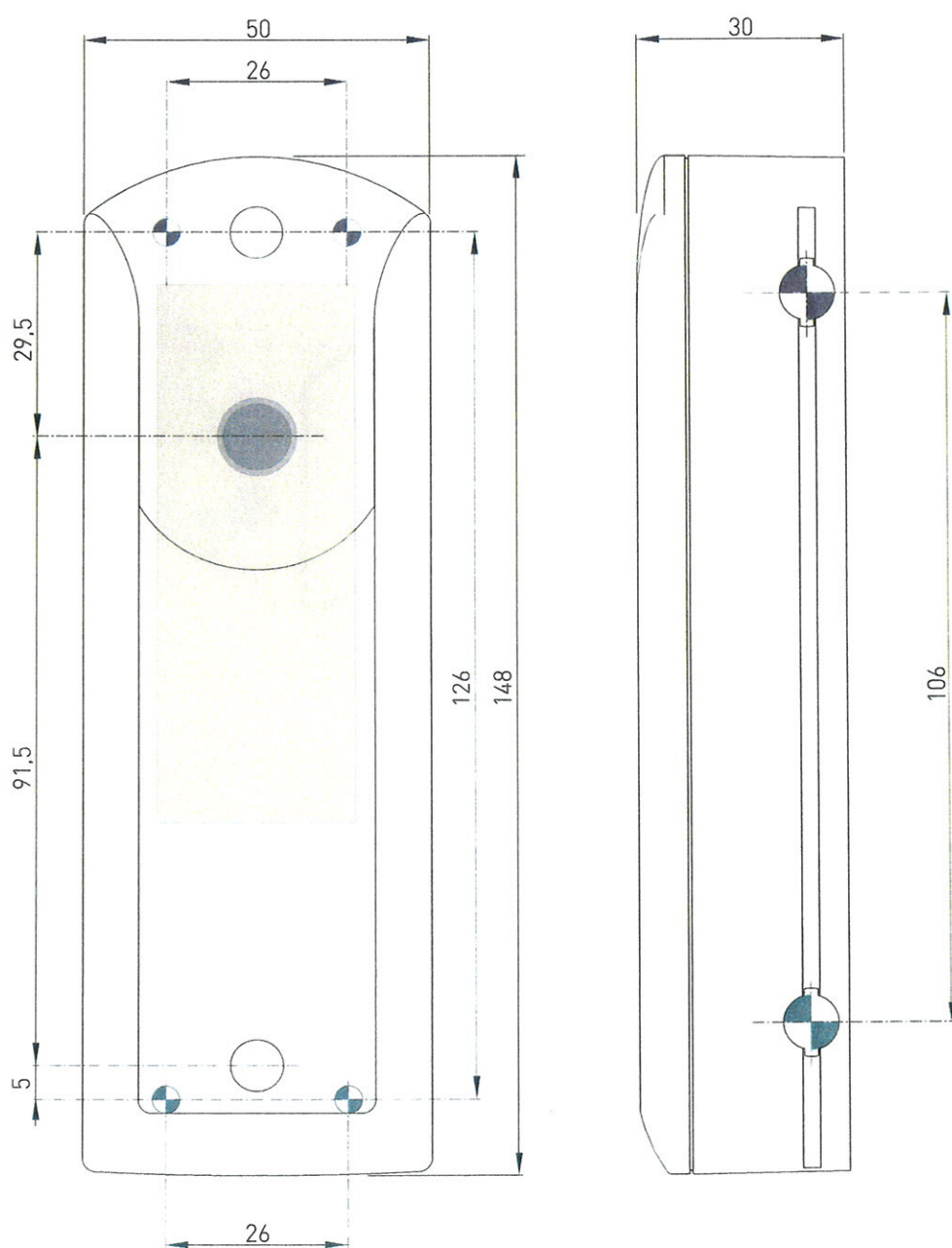
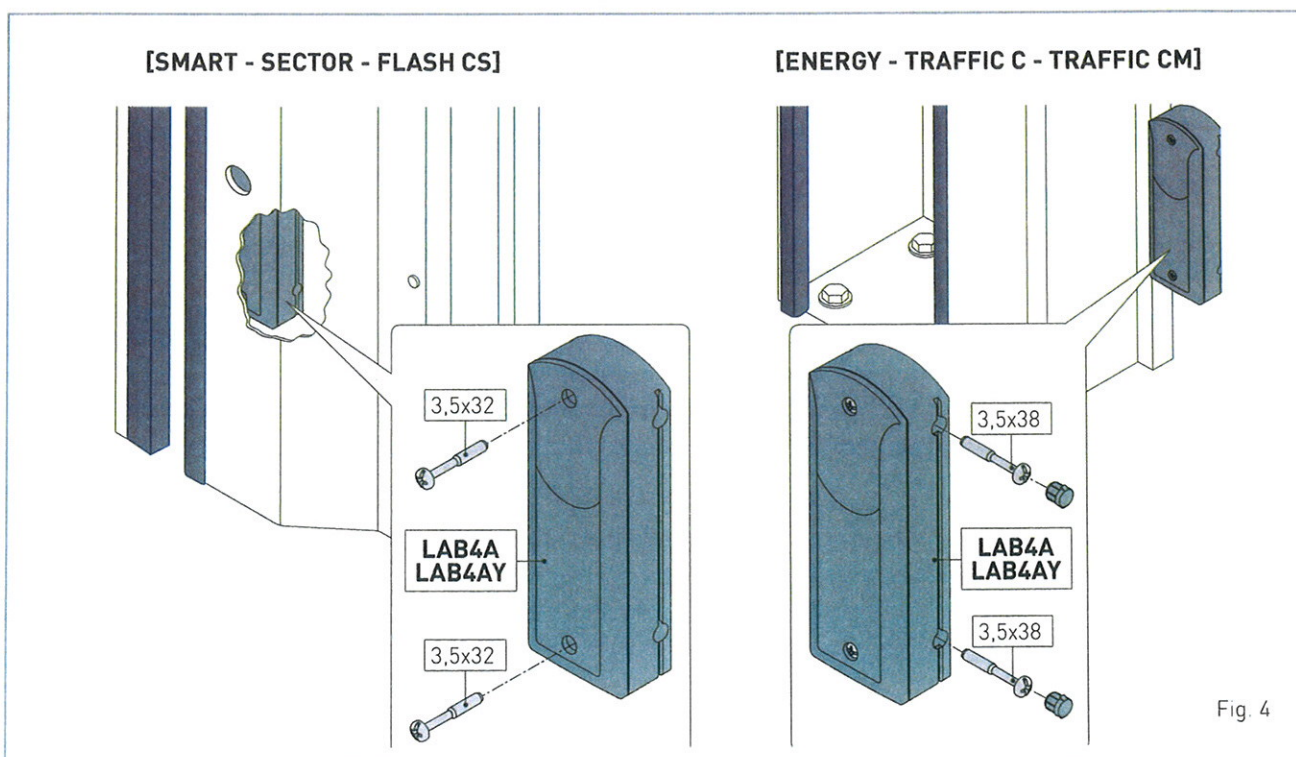
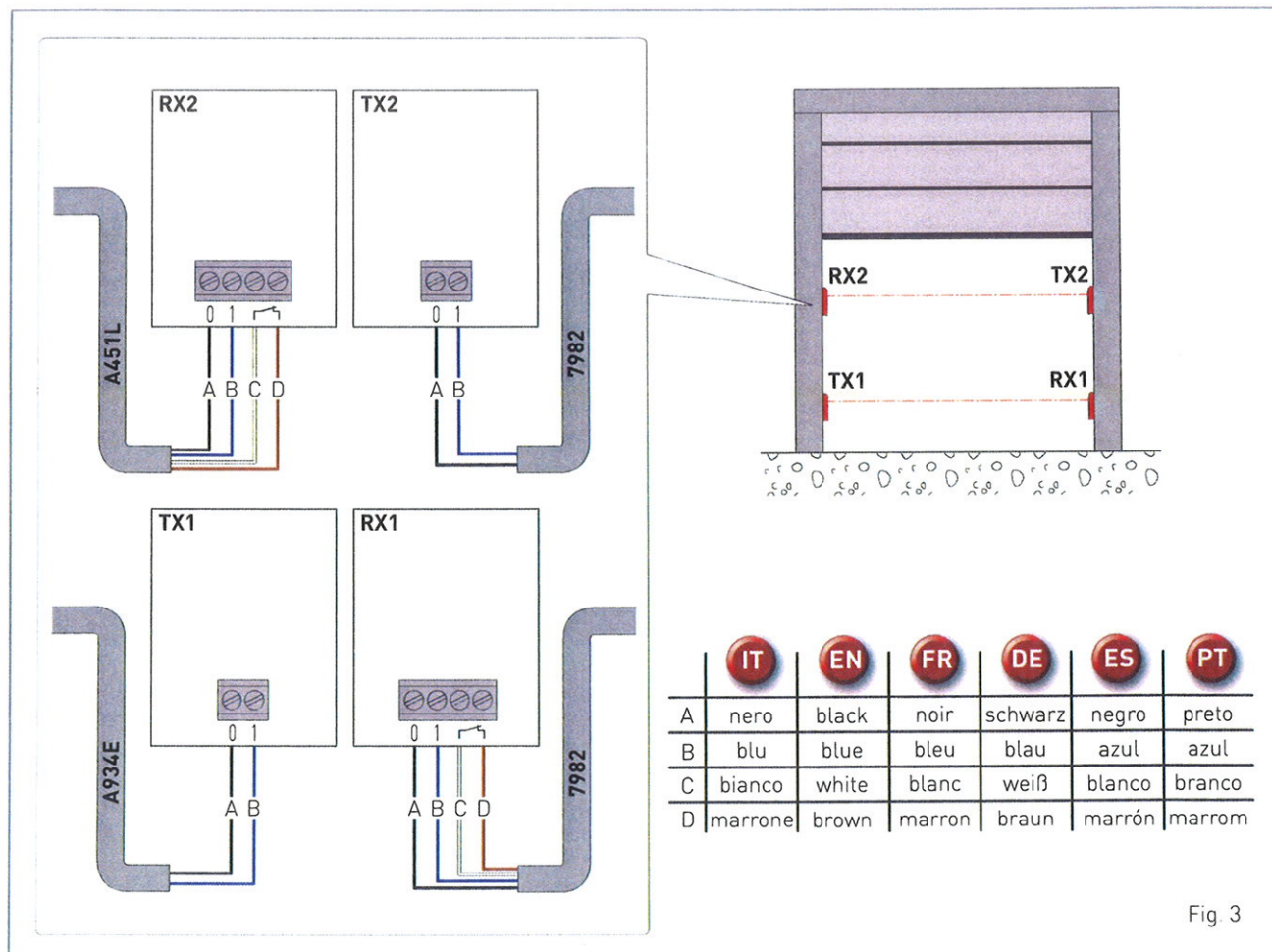



Fig. 2



## General safety precautions

 This installation manual is intended for professionally competent personnel only. Read the instructions carefully before beginning to install the product. Incorrect installation may be a source of danger. Packaging materials (plastic, polystyrene, etc.) must not be allowed to litter the environment and must be kept out of the reach of children for whom they may be a source of danger. Before beginning the installation check that the product is in perfect condition. For repairs or replacements of product only original spare parts must be used. These instruction must be kept and forwarded to all possible future user of the system.

## 1. Technical data


Power supply	24 V $\equiv$ / ~
Absorption	50 mA max
Range	30 m max
N.C. output	24 V $\equiv$ / ~ / 1 A
Temperature	-20° C / +55° C
Degree of protection	IP55

## 2. Settings

	OFF 	ON 
JP1	30 m range.	10 m range.

The LAB4 photocells are supplied with a maximum range of ca. 10 m. To increase the range up to 30 m, set JP1=OFF on the RX receiver (fig. 1).

## 3. References

RX	Receiver
TX	Transmitter
LED 	Output activation signal

## 4. Installation

The LAB4 photocells must be installed in compliance with current regulations and directives.

Optically align receiver RX and transmitter TX.


The fastening can be made directly on the wall, or using the special columns (fig. 4).

Connect as indicated (fig. 1).

## 5. Use of the photocell as security device

The LAB4 photocells may be used for protect against compression, shearing, trapping and general danger areas of the motorized door or gate. (Fig. 1) Connect the N.C. contact to the safety or stop contacts of the control panel.

## 6. Use of the photocell as control device

- Cut the track marked by  on the weld side of receiver RX.
- Make a soft-tin jumper between points [C] and [D].

(Fig. 1) The N.C. contact becomes a N.O. contact and must be connected to terminals 1-3 (opening) or 1-5 (step-by-step) of the control panel.

## 7. Installation of two pairs of photocells

In order to avoid interferences between the two pairs of photocells, it is advisable to install receiver RX and transmitter TX inverted and with a distance between the rays of at least 500 mm.

## 8. Checking for proper operation

Close the photocell with the cover and affix the dimming filter sticker on the outside.

Break off the beam and check for tripping of the relay (audible signal) and coming on of LED on receiver RX.

The damping filter label is intended to simulate unfavourable environmental conditions. Upon checks being completed, remove the filter label.

## 9. Routine maintenance plan (every 6 months)

For the correct working of the photocells:

- keep the external surfaces of receiver RX and transmitter TX always clean;
- check that breaking off of the beam (coming on of LED on receiver RX) causes gate to stop or reopen.