# IR barriers for windows

## 3518-3518/50-3518/150-3519

## Description

The device consists of 2 columns, one operating as a TRANSMITTER (TX), and the other as a RECEIVER (RX). Both have a microprocessor for the management of the alarm and the synchronisation of the infrared beams. The table that follows shows the alarm tripping times based on the rays broken:
OR: alarm with at least one ray broken (maximum sensitivity) AND: alarm with at least two rays broken (minimum sensitivity).

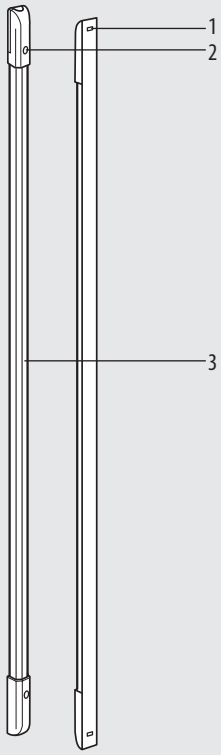
| Tripping time / Rays broken | Microswitch setting | | | |
|---|---|---|---|---|
| | OR | | AND | |
| | 100 | 200 | 100 | 200 |
| only 1 | 2 sec. | 2 sec. | - | - |
| 2 not adjoining | 1 sec. | 1 sec. | 1 sec. | 1 sec. |
| 2 adjoining or all | 100 ms | 200 ms | 100 ms | 200 ms |

### Anti insetti

Per installazioni con distanza tra RX e TX maggiori di 1 m, l'oscuramento di un solo raggio se avviene direttamente su una delle barriere (per esempio a causa della presenza di un insetto), non provoca allarme. L'allarme è però immediato se vengono interrotti altri raggi.

### Range and connection

The barriers have a maximum range of 12 m indoors and 6 m outdoors. They are connected to the rest of the burglar-alarm system by contact interfaces. If the maximum absorption of the burglar-alarm allows it, it is possible to connect one or more barriers using interface 3480V12 o F482V12 (one interface per barrier, and only for item 3518/50 and 3518). In alternative, due to absorption limitation or when barriers 3518/150 and 3519 are installed, contact interfaces 3480 or F482 must be used for the connection to the burglar-alarm system, as well as a power supply E47/12 for powering the barriers. In this way up to a maximum of seven barriers 3518 or six barriers 3519 can be installed.



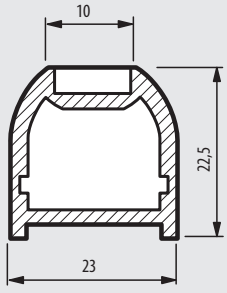

## Legend

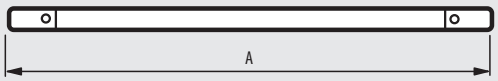
**1 -** Receiver;
**2 -** Transmitter;
**3 -** IR emission zone.

## Technical data

- Range: 12 m high power indoors and 6 m outdoors, 3 m low power both indoors and outdoors.
- Power supply: 12 Vdc +/- 2 Vdc
- Max. absorption: 50 mA
- Operating temperature: (-25) – (+55)°C
- Protection index: IP44

## Dimensional data



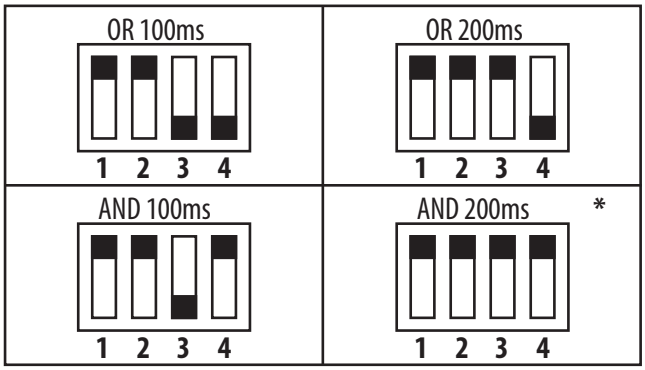

| Item | Lenght A (mm) |
|---|---|
| **3518** | 1080 |
| **3518/50** | 580 |
| **3518/150** | 1580 |
| **3519** | 2080 |

# IR barriers for windows

**3518-3518/50-3518/150-3519**

## Configuration

The barriers are sold configured for operation in "AND" mode, with tripping time: 200ms.
To change the mode use the internal microswitch as shown in the following table:




* default

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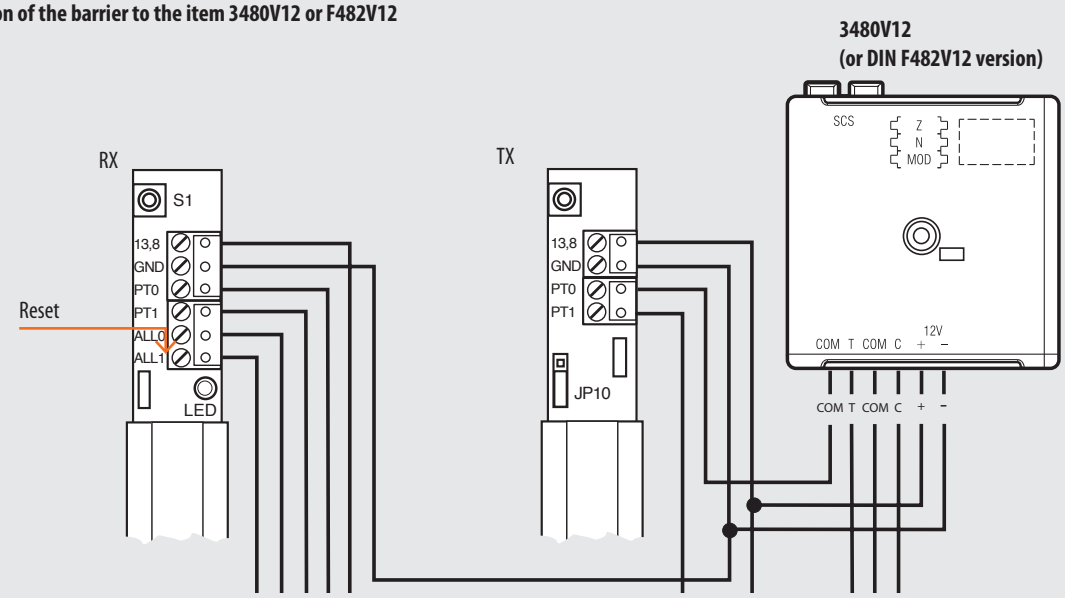
## Wiring diagram

**Connection of the barrier to the item 3480V12 or F482V12**




If the max. consumption of the system allows it, it is possible to connect the 3518 or 3518/50 barrier directly to only one interface item 3480V12 or F482V12.

**WARNING:** use a 30 m max twisted, unshielded cable.

Connection table

| MS1 | Receiver (RX) |
|---|---|
| 1 | +13.8V |
| 2 | GND |
| 3 | PT0 Tamper C |
| 4 | PT1 Tamper N.C. |
| 5 | All0 Alarm C |
| 6 | All1 Alarm N.C. |

| MS1 | Transmitter (TX) |
|---|---|
| 1 | +13.8V |
| 2 | GND |
| 3 | PT0 Tamper C |
| 4 | PT1 Tamper N.C. |

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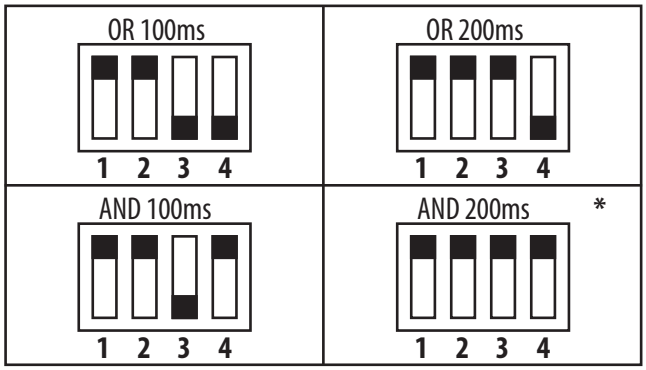


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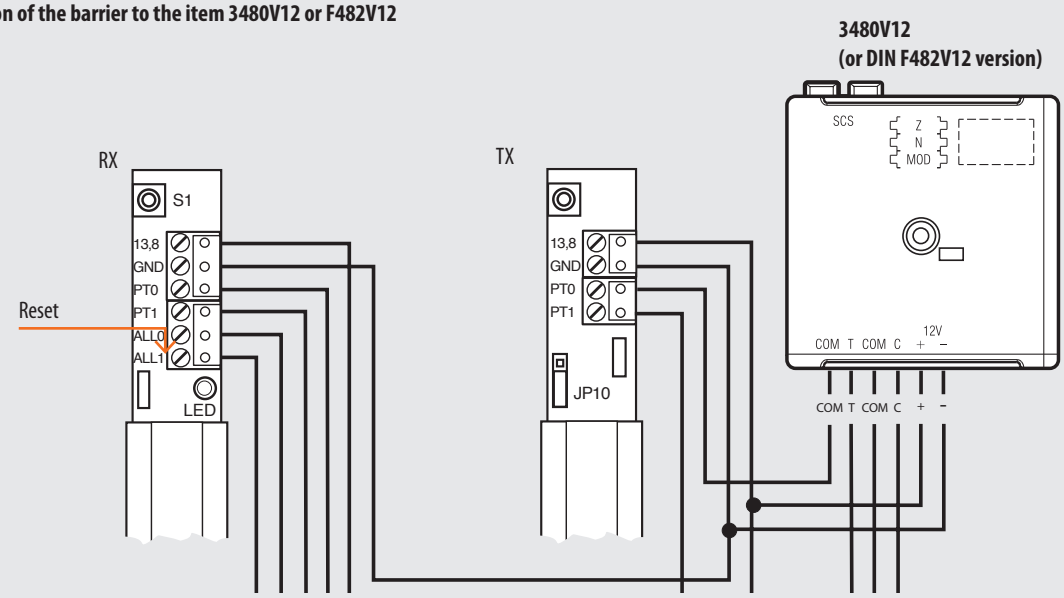


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