

WINNER

CABLED IR BARRIER

Available in white and black colours

BLACK VERSION – MAXIMUM RANGE 15 m

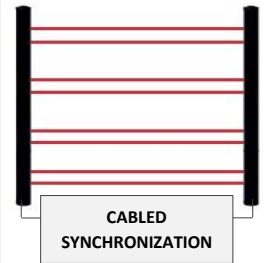
WHITE VERSION – MAXIMUM RANGE 3,5 m

Installation and user manual

WINNER is the dual led IR barrier with parallel beams. It is composed of two symmetrical bars to be installed on either sides of the entrances to be protected and it allows to anticipate intrusion by leaving freedom to move indoors with even windows and doors open.

TECHNICAL FEATURES AND CONSUMPTION

Maximum range outdoor: black version 15 m, white version 3,5 m (minimum range: 20 cm for all versions)
 Operating temperature: -25°C + 70°C
 Synchronization: cabled
 Led indicators: synchronization - alarm
 Detection system: OR-AND
 Power supply: from 12V to 15V, best 13.8V
 Consumption: TX and RX motherboards 40 mA
 Consumption: TX and RX additional modules 8 mA
 Tripping time: 50 o 500 msec (alarm period about 2 sec)
 N.C. alarm contact: 0.5 Ah 30 VDC, 0.25 Ah 60 VDC
 Protection class: IP54

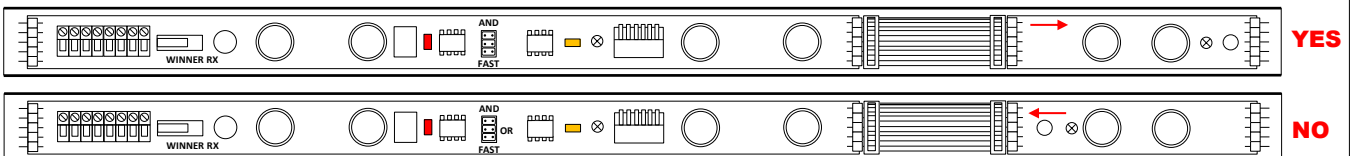


INSTALLATION

1. Remove the caps and the extruded cover.
2. Drill both ends of the aluminium bar and fix it to the wall. Additional holes may be required for higher barriers. Once the aluminium bar and/or the upper and lower plugging caps have been drilled, we recommend sealing the holes with silicone sealant.
3. **CONNECTIONS:** Use shielded cables and connect the shield.
 If the system masses are not equipotential, connect the shield only on the central side. In addition to the standard connections for the power supply, tamper function and alarm contact, it is also necessary to connect the Winner TX transmitter to the Winner RX receiver using two synchronization wires +Sinc TX and -Sinc RX (connect +Sinc TX to +Sinc RX and -Sinc TX to -Sinc RX).
4. Power the system with 13.8 Vdc and verify that the leds SYNC on both the Winner TX and Winner RX circuits start to flash. Otherwise, check that the synchronization wires have been correctly connected.
5. Place the jumper in position OR and test the barrier by individually covering the adjacent pairs of leds that form the beam. Verify that the led ALARM switches on.
6. After completing the test, program the desired operating mode, OR / AND (FAST, for indoor installations only) and close the barriers.

WARNINGS

- **Power the device using the 13.8 Vdc stabilised voltage only (Winner works from 12 to 15 Vdc).**
- **Install the additional modules in the correct direction (as shown in the following figure):**



- **Do not insert additional RX modules into the TX barrier and additional TX modules into the RX barrier.**
- **Avoid routing the connection cables in raceways where power leads are present.**
- **Do not install outdoors, in the open air, without a suitable covering.**
- **MITECH shall not answer for any barrier damage and/or malfunction caused by incorrect installation and/or improper use of same.**

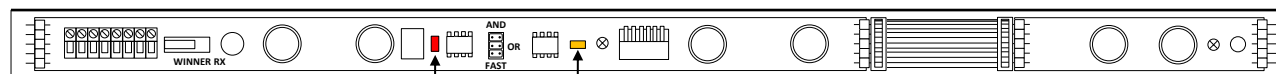
OR – AND – FAST FUNCTION

Program the barrier in the desired mode using the JUMPER on the RX base board.



↑
AND: alarm with interruption of two beams
OR: alarm with interruption of one beam
FAST: 50 mSec delay for internal use only

LED DESCRIPTION



LED
ALARM

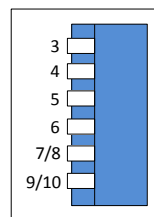
LED SYNC OR CLOCK

LED FLASHING: correct operation

LED OFF: no power supply or cabled synchronization not connected



DIP SWITCH DESCRIPTION - ACTIVATION AND DEACTIVATION ADDITIONAL BEAMS



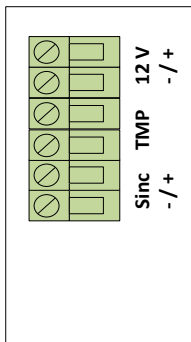
LEVER UP = OFF
 LEVER DOWN = ON

DIP-SWITCH PROGRAMMING

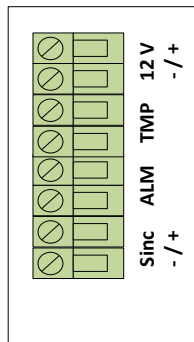
MODEL BARRIER	DIP 3	DIP 4	DIP 5	DIP 6	DIP 7/8	DIP 9/10
with 3 beams	ON	OFF	OFF	OFF	OFF	OFF
with 4 beams	ON	ON	OFF	OFF	OFF	OFF
with 5 beams	ON	ON	ON	OFF	OFF	OFF
with 6 beams	ON	ON	ON	ON	OFF	OFF
with 8 beams	ON	ON	ON	ON	ON	OFF
with 10 beams	ON	ON	ON	ON	ON	ON

CONNECTIONS

TX



RX



Sinc = synchronization
 TMP = tamper output
 ALM = alarm output (contact N.C.)

WARNINGS

- Power the device using the 13.8 Vdc stabilized voltage (Winner work from 12 to 15 Vdc).
- Connect the TX transmitter to the RX receiver with the two wires synchronization as follows:
 + Sinc TX with + Sinc RX and -Sinc TX with -Sinc RX

MITECH® srl

Offices:
 Via Roncaglia, 14
 20146 Milano – Italy

Production:
 Via Ramazzone, 23
 43010 Fontevivo (PR) – Italy

Phone: +39 02.48006383
 Fax: +39 02.48025620
 tech@mitech-security.com



www.mitech-security.com