WSA 8 BOX RELE 10 - 20
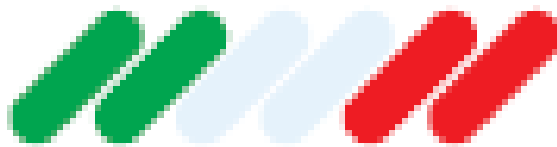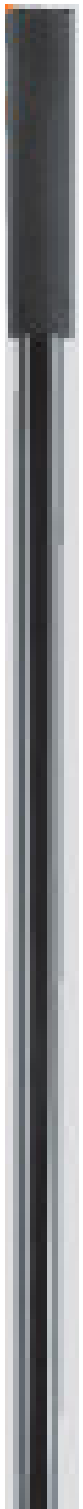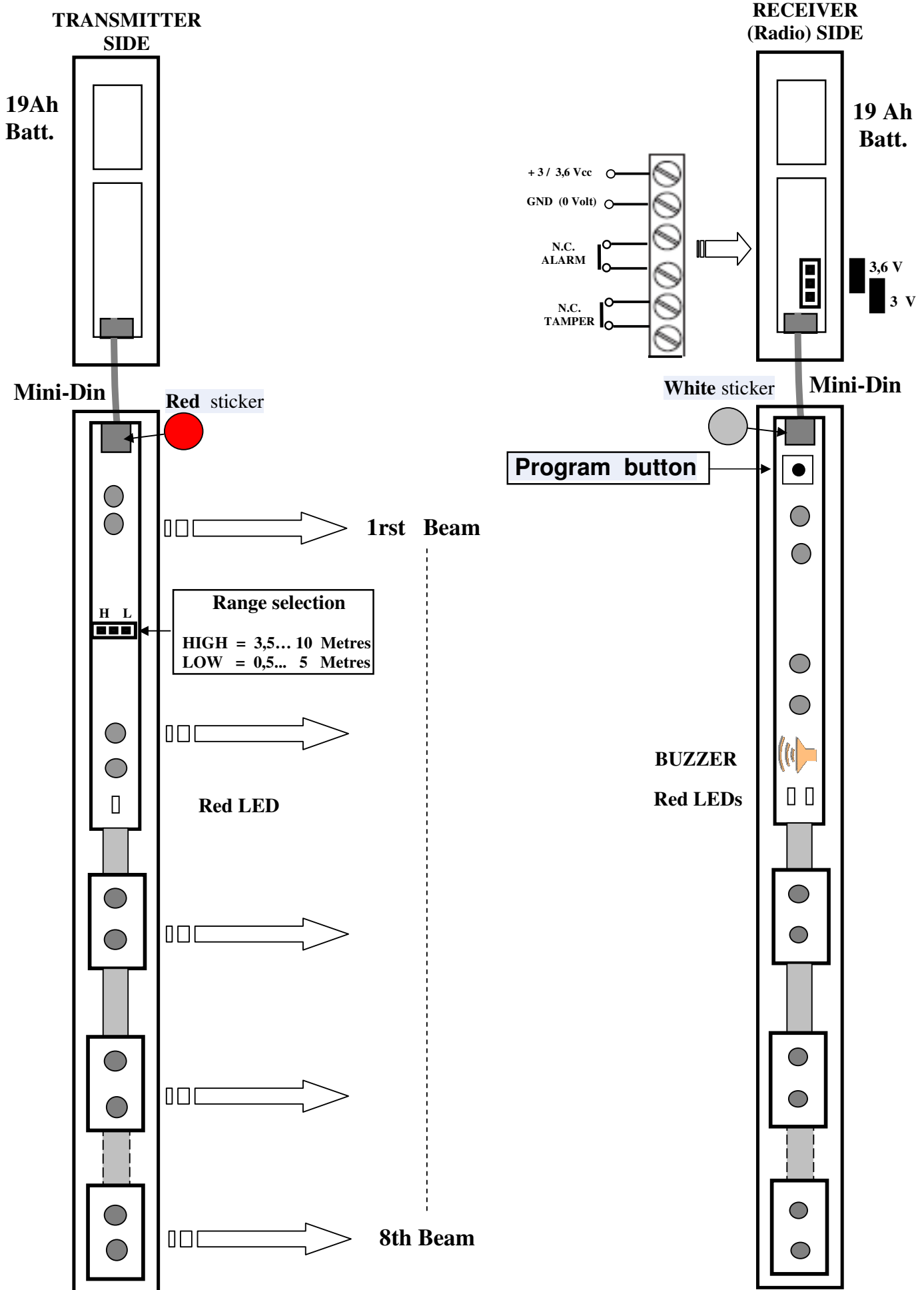## [Self - Powered active infrared optical Barrier]
from 4 up to 8 Beams – Range 0,5 up to 10 [5] Metres [White]

BARRIER Composition

TRANSMITTER SIDE

RECEIVER (Radio) SIDE

19Ah Batt.

19 Ah Batt.

+ 3 / 3,6 Vcc

GND (0 Volt)

N.C. ALARM

N.C. TAMPER

3,6 V

3 V

Mini-Din

Red sticker

White sticker

Mini-Din

Program button

1rst Beam

Range selection

HIGH = 3,5… 10 Metres
LOW = 0,5... 5 Metres

H   L

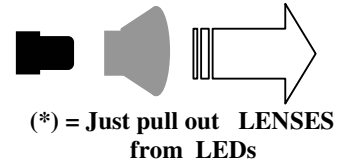**Red LED**

BUZZER

Red LEDs

8th Beam

General descrition

The WSA 8 BOX relè Barrier ,   consists basically of 2 aluminium profiles containing electronics and 2 Boxes containing Batteries and a Radio interface . The Receiver and the Transmitter are both with double OPTICS . The radio interface should be connected only at the receiving side,because of the transmitting side transfers optically its information to the receiver. In the receiver side, we have an ALARM and a TAMPER contacts (N.C.) . A voltage output of the battery at 3.6 or 3.0 volts. Information of LOW battery in the receiving or transmitting side , it is made by a beep when you break one or more rays of the barrier. The barrier may have from 2 to 8 rays movable along the aluminum profile, which can be easily cutted and made to measure .

Barrier settings (Range adjustment)

Optical distance (Metres)	OPTIC of the Barrier	Tx JUMPER [Range]
≤ 1,5 (≤ 1 White)	Remove all LENSES (*)	LOW position
≤ 5 (≤ 3 White)	Leave all LENSES	LOW position
≥ 5 (≥ 3 White)	Leave all LENSES	High position

**(*) = Just pull out   LENSES
from LEDs**

Make the barrier functioning

To make the barrier works acts as follow :

a) Mount the barriers onto the WALL and fixing them by screws
b) Put the JUMPER of the Tx in HIGH or LOW position according to the RANGE
c) Connect the batteries to the CIRCUITS (into the BOX)
d) Put the Voltage JUMPER in the RECEIVER side in 3 or 3,6 Position as needed
e) The transmitter and the receiver, after 5 seconds of self-test , stop flashing LEDs
       and they are ready to function normally .

You can connect any contacts transmitter , to the outputs placed in the battery box holder (receiver side) . Closing BARRIERS and both BOXES , you will get the *TAMPER PROOF* CLOSED .

If you <u>wish to change</u> the way of operating , i.e. removing or adding a beam or make ALARM with 1 or 2 beam , then proceed as follows:

1) Press for about 5 seconds the PROGRAM BUTTON
2) The 2 Red LEDs begin to flash and the barrier makes a self-acquisition
3) At the end of learning (about 5 seconds) one or 2 LEDs will lit on
4) By pressing the button (Leds toggle) you can choose alarm with 1 or 2 rays
     by leaving 2 LEDs ON (Alarm with 2 rays enabled) or just 1 for 1 ray for Alarm.
5) By covering the rays , you can make a TEST of proper learning (the beeper sounds
      at each rays interruption)
 6) After about 10 seconds with a long beep, the barrier signals the end of Procedure
 7) At this point the Barrier is operating normally

Main features

OPTICAL Range	: 0,5 ÷ 10 Metri (5 Metres White model)
Battery life	: > 5 years with 19 Ah Batteries
Nr. Of rays usable	: 2 ÷ 8
Nr. Of rays for Alarm	: 1 o 2 "closer"
Trigger Time	: 0,5 Seconds
Turn ON Time	: 5 Seconds
Outputs ALARM/TMP	: Dry Relay contact @ 0,5 A – 24 Vac
Supply Power	: 2 Lithium Batteries 3,6 Volt –19 Ah (D Stile)
Working Temperature	: -25° / +55 °
IP Grade	: IP 44

Ordering codes		Description
WSA 8 BOX	RELE 10	4 Beams – 100 cm. Bar Kit + Relay Interface BOX
WSA 8 BOX	RELE 20	8 Beams – 200 cm. Bar Kit + Relay Interface BOX
WSA 8 BOX	RELE 10 B	4 Beams – 100 cm. "All WHITE" model Max 5 Metres Range
WSA 8 BOX	RELE 20 B	8 Beams – 200 cm. "All WHITE" model Max 5 Metres Range

Typical application

OPTEA

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