Infrared Radar MR27
DOUBLE BEAM DETECTION / SAFETY

MANUAL OPERATION / INSTALLER

Motorline®
PROFESSIONAL
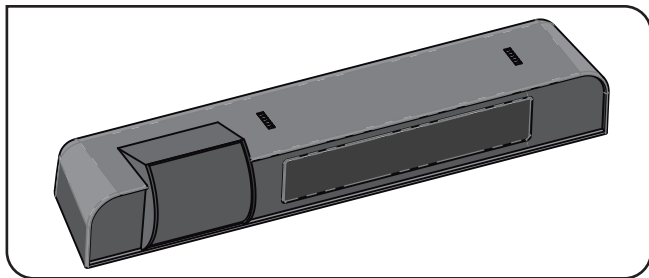
⚠ Read the following information carefully before using the product.

PRODUCT OVERVIEW
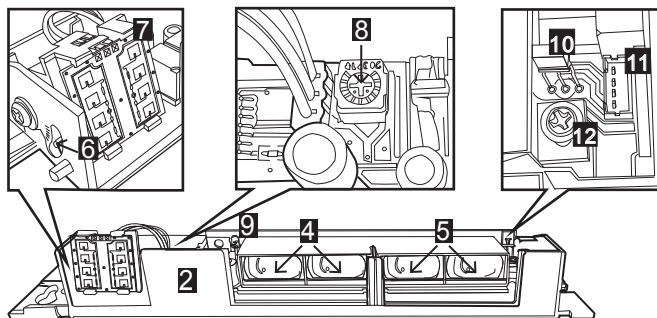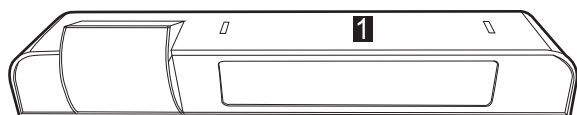
| 1	Cover	5	Receptor	9	Activation Indicator
2	Base	6	Angle of Inclination's Indicator	10	Safety Indicator
3	Lens	7	Radar Module	11	Main connector
4	Transmitter	8	Radar's Sensitivity Regulator	12	Infrared Ajusting Area

CHARACTERISTICS

▷ 2 in 1 sensors - Radar and photocells combined in a single product.
▷ 2 output relays - Motion and Presence.
▷ Developed for automatic sliding and revolving doors.

▷ With Self-Learning Function of the infrared sensor's action area. It allows to adapt automatically to changes in the area of infrared detection as well as fluctuations, distortion, movement, darkness and lightness.
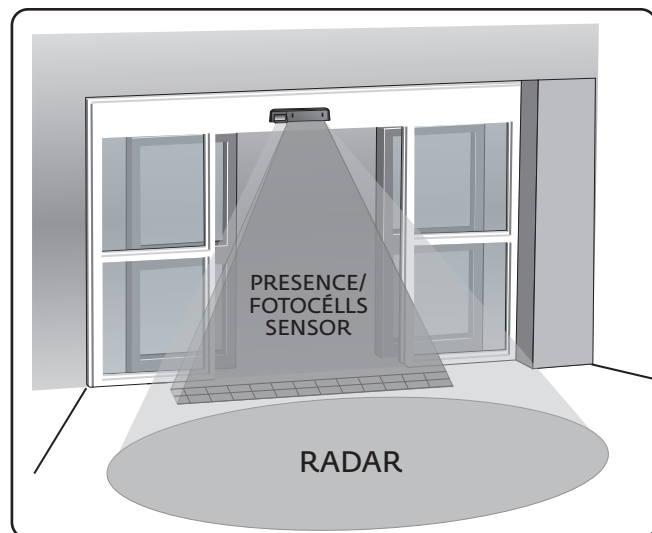
▷ This product adopts a microwave sensor with german origin, and it is not influenced by temperature and humidity, ensuring a reliable and safe performance.For installations up to 2.5 meters high.
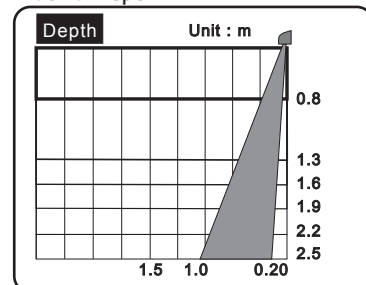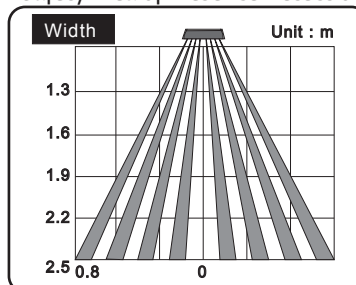
INSTALATION
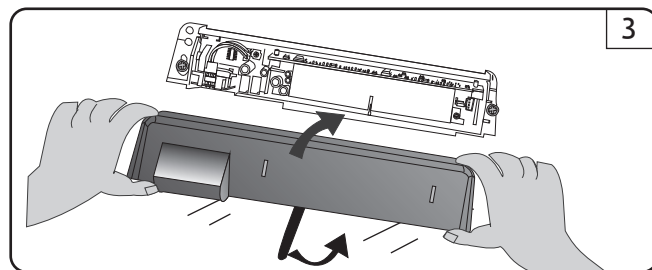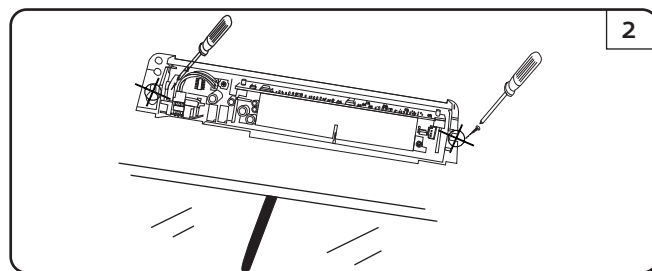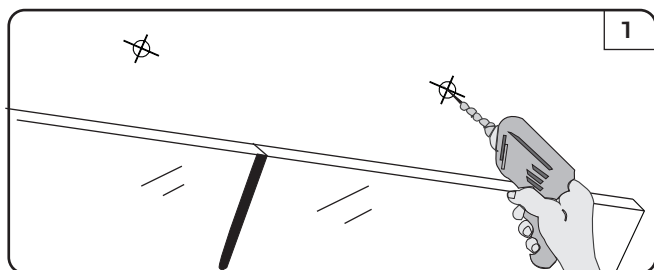
ACTIVATION AND SAFETY DETECTION RANGE

Detection areas:

PRESENCE/
FOTOCÉLLS
SENSOR

RADAR

Safety Area of Presence Detection: Width & Depth:

Width — Unit : m
1.3
1.6
1.9
2.2
2.5   0.8   0

Depth — Unit : m
0.8
1.3
1.6
1.9
2.2
2.5
1.5 1.0 0.20

Radar Ativation Area: Width & Depth:

Width — Unit : m
0
1
2
15°
30°
45°
2 1 0 1 2

Depth
45°
15° 30°
15 30 45°

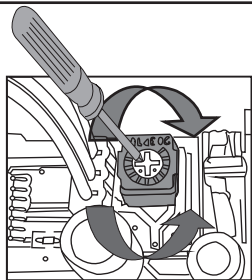|		
1	RED	AC/DC
2	BLACK	12-36V
3	BROWN	COM } PRESENCE
4	YELLOW	NC } (Relays)
5	GREEN	COM } MOVEMENT
6	WHITE	NO } (Relays)
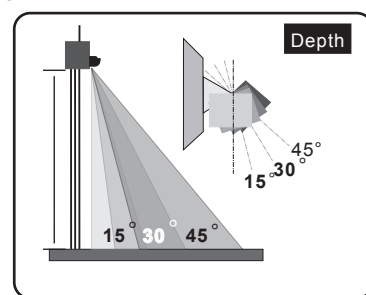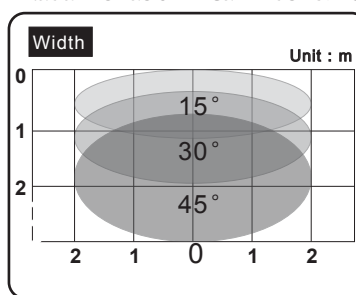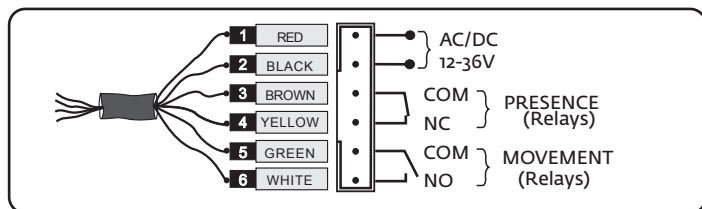
RADAR SENSIBILITY AJUSTMENT AND PRESENCE DETECTION AREA
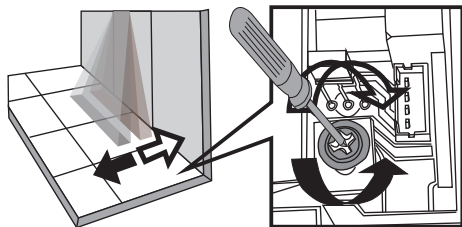
Radar Sensibility Ajustment

NOTE:

Increase Sensitivity - Rotate in a clockwise direction

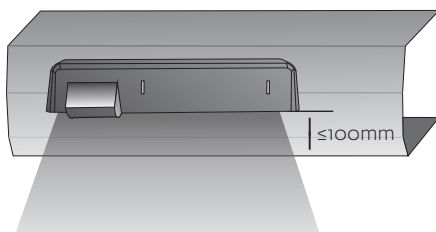Reduce Sensitivity - Rotate counter-clockwise direction.

Presence Detection Area

For a detection area nearest the door turn the potentiometer in a clockwise direction.

For a detection area farthest from the door turn the potentiometer counterclockwise.

NOTE:

Please install the sensor ≤ 100mm above the chassis to avoid loss of sensitivity.
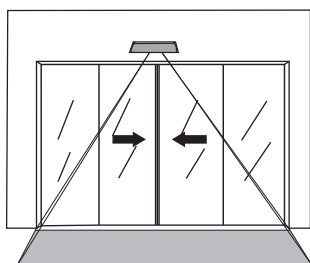
≤100mm

Passing the Cape

NOTE: Observe the correct cable path. This format allows complete isolation of possible water infiltration, serving to drain water. A correct placement of the wire provides an easier installation of the cover.
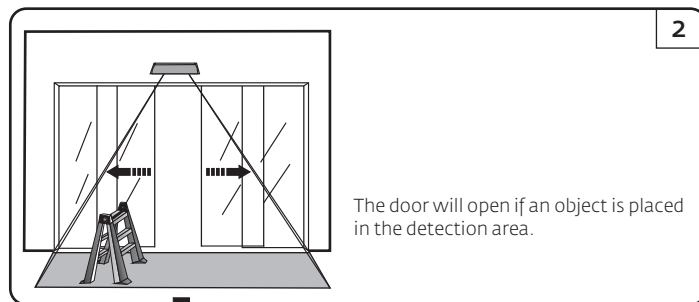
Plástic Pin

Cable
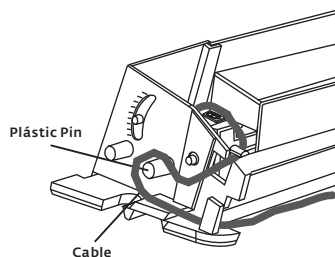
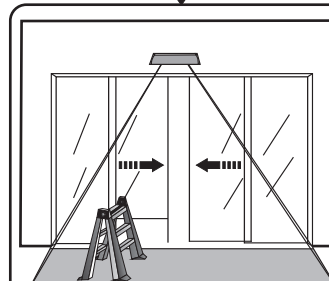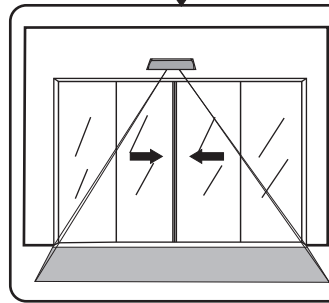### Presence Sensor's Detection Area **1**

Please ensure that the area is object's free during the process of the sensor's self-learning.

2

The door will open if an object is placed in the detection area.

3

If after 18 seconds and no movement occurs within the infrared's area, the sensor will accept the object as part of the room and closes the door.

4

Remove the object. The system will send a environment reading signal and return to the original recording background.

TECHNICAL SPECIFICATIONS

	MR27
▷ Power Supply	AC/DC 12 to 30V (-/+10%)
▷ Output	Relays
▷ Current (STANDBY)	65mA
▷ Current (Action)	130mA
▷ Cable Length	2500mm
▷ Instalation Max Height	2500mm
▷ Cover's Material	ABS
Presence Sensor	
▷ Ray Type	Refleted Infrared
▷ Ray Source	Infrared 940mm
▷ Ray Quantity	8 emitted, 8 emitted
▷ Self-Learning Time	10 sec
▷ Operation's Indicator	Standby (blue)/ Activ. (red)
▷ Temperature	-40ºc a 60ºC
▷ Detection Area	1600 (W) x 800 (D) mm
▷ Output Time	500ms
▷ Reply	≤100ms
▷ Optical Surface	PMMA
Radar	
▷ Technology	Processor
▷ Frequency	24.125GHz
▷ Emission	<20dBm EIRP
▷ Transmission frequency density	<5mW/cm2
▷ Detection Mode	Movement
▷ Detection Range	4m (W) x 2m (D)
▷ Output Time	0.5s
▷ Temperature	-20ºC a 55ºC