



**1** NO OBSTACLES DETECTED,  
NO ALERTS



**2** FAR OBSTACLE DETECTED,  
VISUAL AND ACOUSTIC  
ALERTS

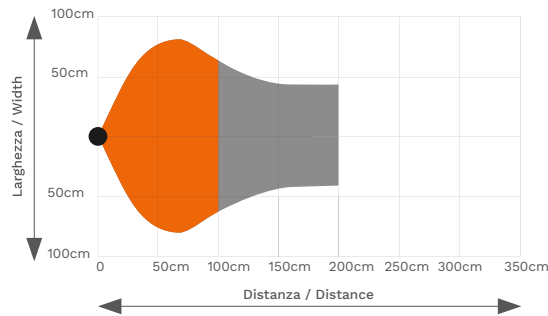


**3** CLOSE OBSTACLE DETECTED,  
INCREASED VISUAL AND  
ACOUSTIC ALERTS

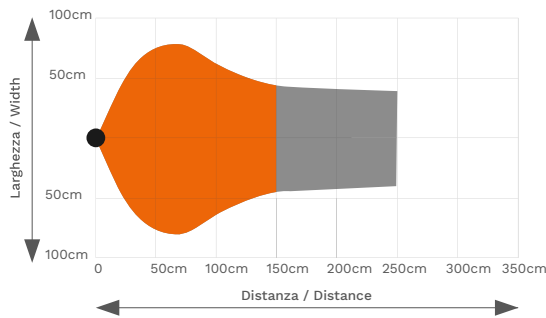
Reverse maneuver passive assistance system: **Safe&Alert** detects the presence of obstacles into the detecting range. Detection, provided by an ultrasonic sensor, produces visual and acoustic feedback alerting the operator about the risk. Feedback varies increasing as the distance from the obstacle decrease.

- ✓ DETECTS PEDESTRIANS, OBJECTS AND STRUCTURES
- ✓ 3 SELECTABLE PARAMETERS PRE-SETS
- ✓ QUICK AND EASY INSTALLATION

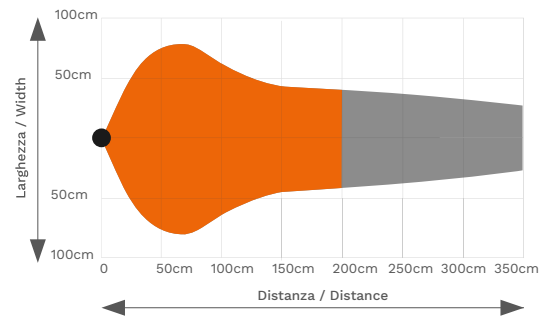
**PRESET 1** Target: Tubo/Tube ø8,5cm



**PRESET 2** Target: Tubo/Tube ø8,5cm



**PRESET 3** Target: Tubo/Tube ø8,5cm



System architecture is based on the display as main element. Once connected to the vehicle it provides power supply to the sensor and manages incoming and outgoing signals.

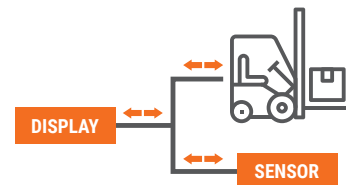
### KIT CONTENTS

#### Display kit inclusive of:

- MiniMind advanced display and related brackets;
- connectors/contacts/seals kit.

#### Sensor kit inclusive of:

- CySens ultrasonic sensor;
- connecting cable;
- brackets, bolts, washers kit;
- connectors/contacts/seals kit.



### User manual and CE Conformity Declaration

#### GENERAL FEATURES

Number of sensors	1
Operating voltage	10-36VDC
Activation trigger voltage	10-36VDC
Operating current	500mA max
Output	not available
Applied norms/directives	2006/42/CE - 2014/30/CE - UNI EN ISO 12100
Official normative definition	safety component

#### SENSOR TECHNICAL FEATURES

Technology	ultrasound
Operating Frequency	40kHz
Number of transmitters	1
Number of receivers	1
Response time	100ms
Dimensions	130mm x 80mm x 80mm
IP rating	IP62 min
Temperature range	-30°C / +80°C (electronic parts)

#### DISPLAY TECHNICAL FEATURES

Visual feedback type	not adjustable
Acoustic feedback type	Pulsing piezoelectric buzzer - variable frequency
Sound pressure level	85dB max (not adjustable)
IP rating	IP50
Temperature range	-30°C / +80°C (electronic parts)



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SAFETY IMPROVEMENT SYSTEMS