

Accessories



eMirror



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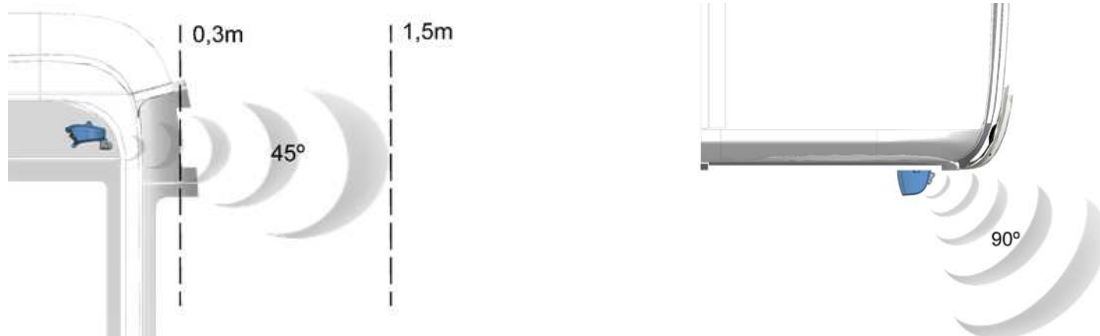
1. eMirror collision warning

Reference number 31 00 000



1.1. System description

System detects objects located until a maximum distance of 1500 mm and opening angles specified in following figures. Moreover, alert box is provided with the system warning to the driver about of possible collision through sound and light (see details in point 2).



System components are collision sensor, alert box, ECU and wiring.
Please, see installation information to know assembly instructions of the complete system.

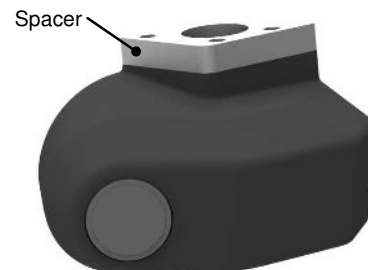
1.2. General characteristics

Operating temperature range	From -40°C to 85°C
Store temperature	From -40°C to 85°C
Voltage	DC 12V / 24V
Power consumption	< 1 W
Approval number	E9*10R06/02*5111 R118 Pending
RoHS compliance	Yes
REACH compliance	Yes
Warranty	2 years limites warranty.

1.3. Technical data

1.3.1. Collision sensor

Reference number 31 00 100



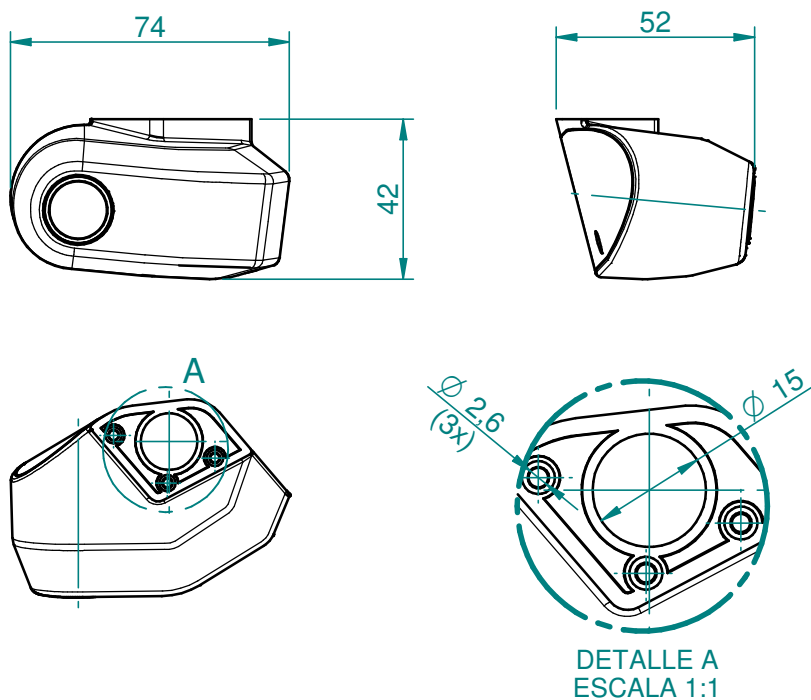
1.3.1.1. Specifications

Description Detection sensor of obstacles for Bus, Motorhome, Mini and Midibus and other vehicles.
In case of eMirror camera unit has protector installed, so it will be need assembly spacer above sensor housing (included).

Características generales:

Impermeability	IP69K (Sensor)
Color	Black
Weight	70 g
Detection range	Until 1500 mm
Detection angles	V=45° ; H=90°
Operating temperature range	From -40°C to 85°C
Frequency	55.5 kHz
Maintenance and cleaning	Use a damp cloth for clean the top of the sensor.

1.3.1.2. Dimensiones



Units in mm

1.3.2. Alert box

Reference number 31 00 200

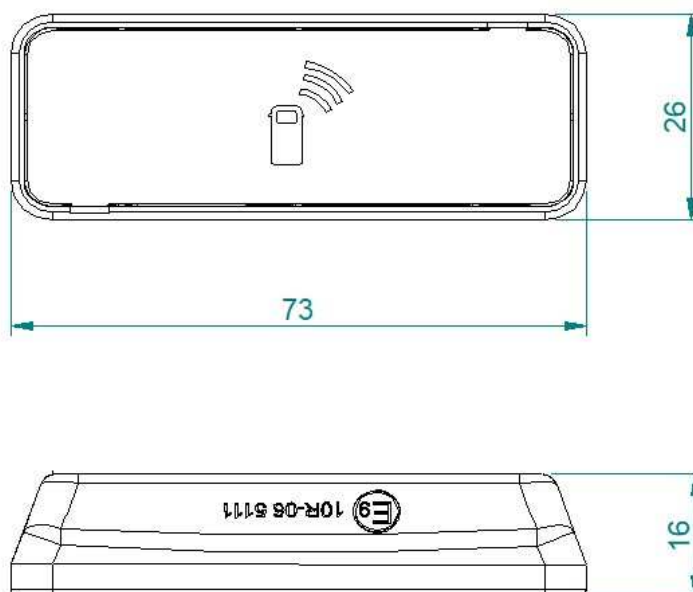


1.3.2.1. Specifications

Description	Alert box, sound and light, for Bus, Motorhome, Mini o Midibus and other vehicles. Intensity and frequency of warnings will be different depending of the obstacle distance.
Color	Black
Weight	50 g (w/o suport)
Operating temperature range	From -40°C to 85°C
Maintenance and cleaning	Chemical or abrasive products are not allowed.

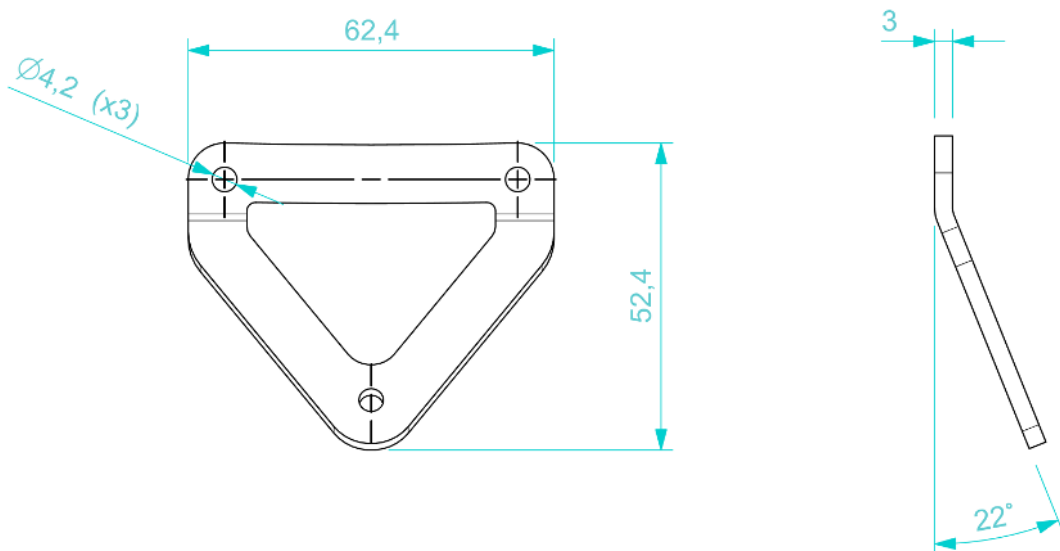
1.3.2.2. Dimensions

Alert box



Units in mm

Alert box suport



Units in mm

1.3.3. ECU

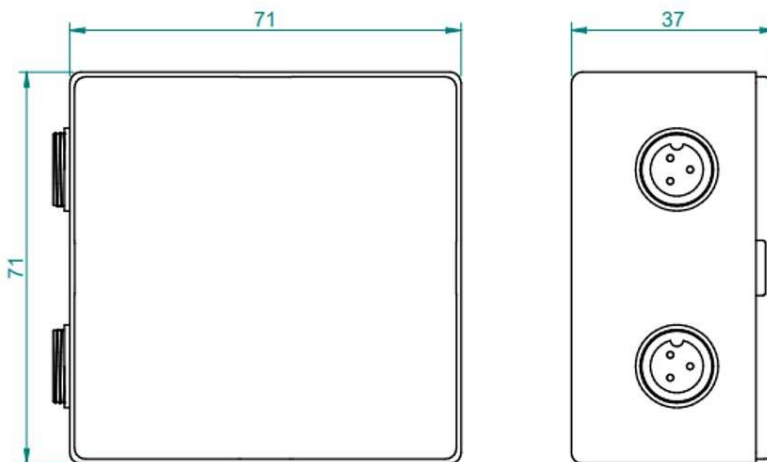
Reference number 31 00 420



1.3.3.1. Specifications

Description	Electronic control unit.
General characteristics:	
Impermeability	IP 54
Color	Black
Weight	70 g
Operating temperature range	From -40°C to 85°C
Maintenance	Not needed.

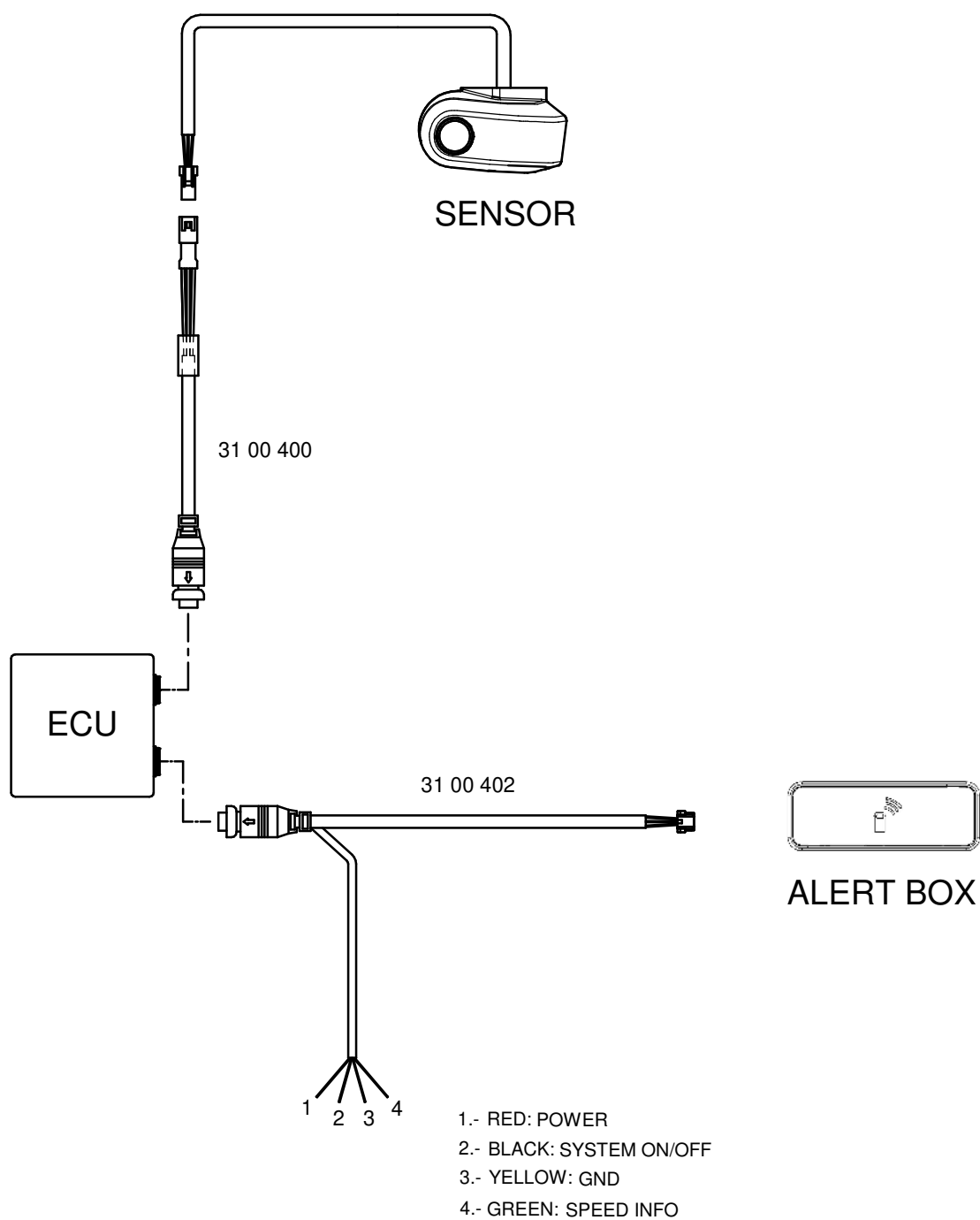
1.3.3.2. Dimensions



Units in mm

1.3.4. Connections

System connection must be done according to instruction diagram showed below:



2. Unit camera protector

Reference number 30 00 801



2.1. System description

Protector housing to avoid damages on eMirror unit camera because of object impacts during traffic and/or vehicle manoeuvre as parking or charging systems.

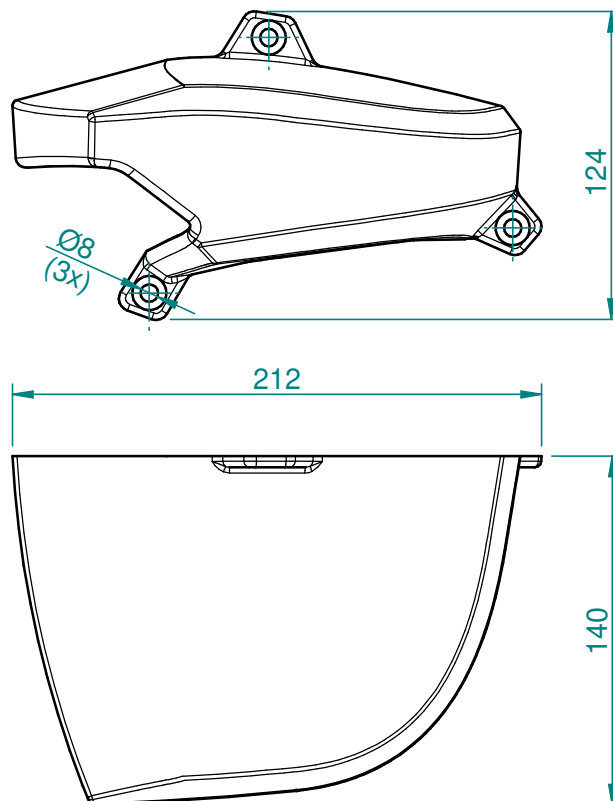
Note: Unit camera protector must be assemble on plate by 3 screws M6x12 (DIN 7991) included. Plate is fixed on vehicle with screws of camera unit.

2.2. General characteristics

Color	Black painted
Weight (Protector)	550 g
Weight (Plate)	280 g
Total weight	830 g
Material	Aluminium

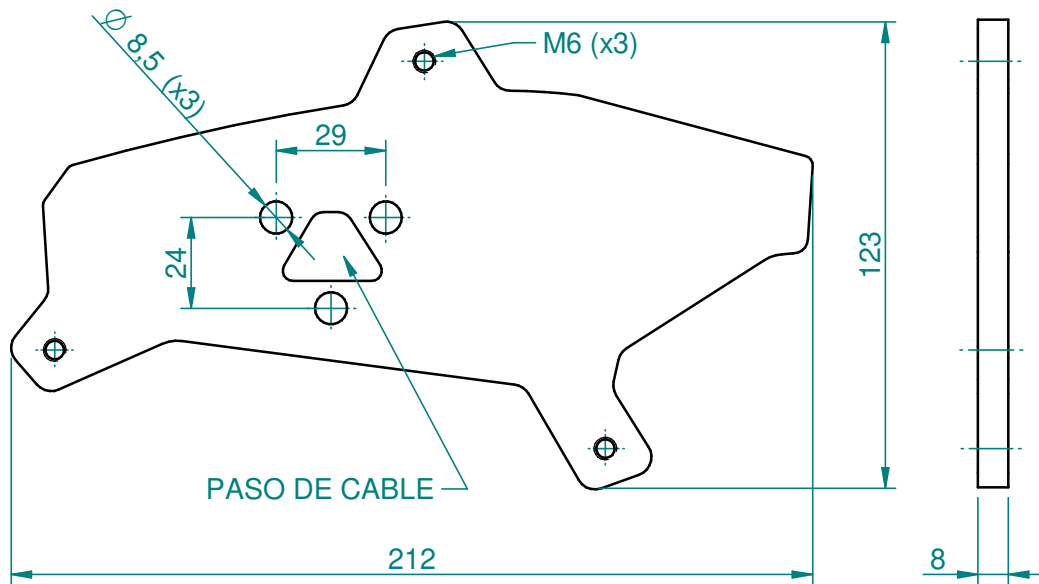
2.3. Dimensions

Protector



Units in mm

Plate



Units in mm

3. Joystick

Reference number 30 00 700



3.1. System description

This tool allow the configuration of functions of camera-monitor system like:

- Activate/Deactivate camera heating. Automatic mode is defect value.
- Set specific birghtness or activate automatic value (defect value).
- Activate/Deactivate HDR or HDR Auto function (defect value) of the image.
- Activate/Deactivate and configure vehicle reference lines.
- Change class image from IV to class V or VI.

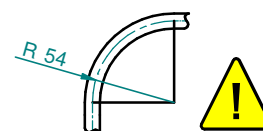
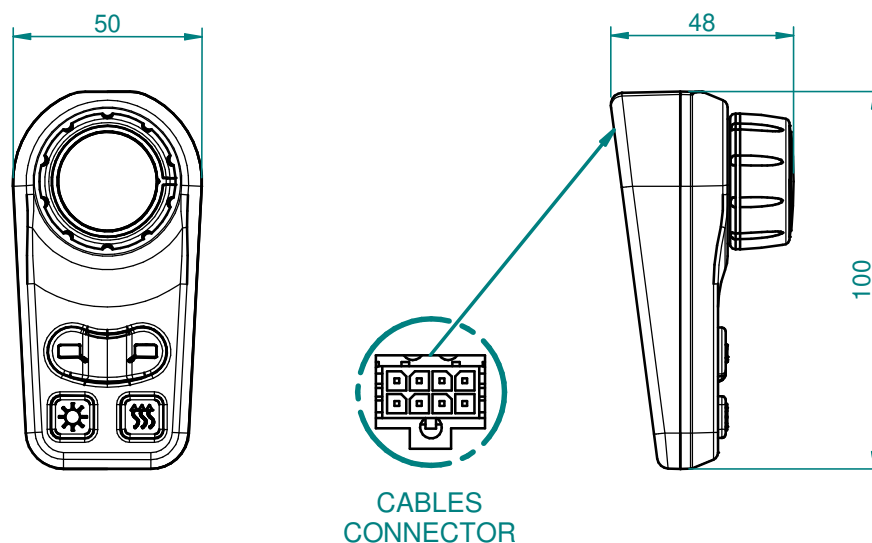
Components of the system are control panel and cables.

Please, see document "Joystick manual eMirror" to know tool configuration.

3.2. Technical data

Color	Black
Weight	80 g
Operating temperature range:	From -40°C to 85°C
Storaga temperature range:	From -40°C to 85°C
Approval number	E9*10R06/02*22854 R118 Pending
RoHS compliance	Yes
REACH compliance	Yes
Maintenance	Turn off the device before cleaning. Use a damp cloth or non-abrasive wipe. Entrance of liquids is not allowed.
Warranty	2 years limited warranty.

3.3. Dimensions



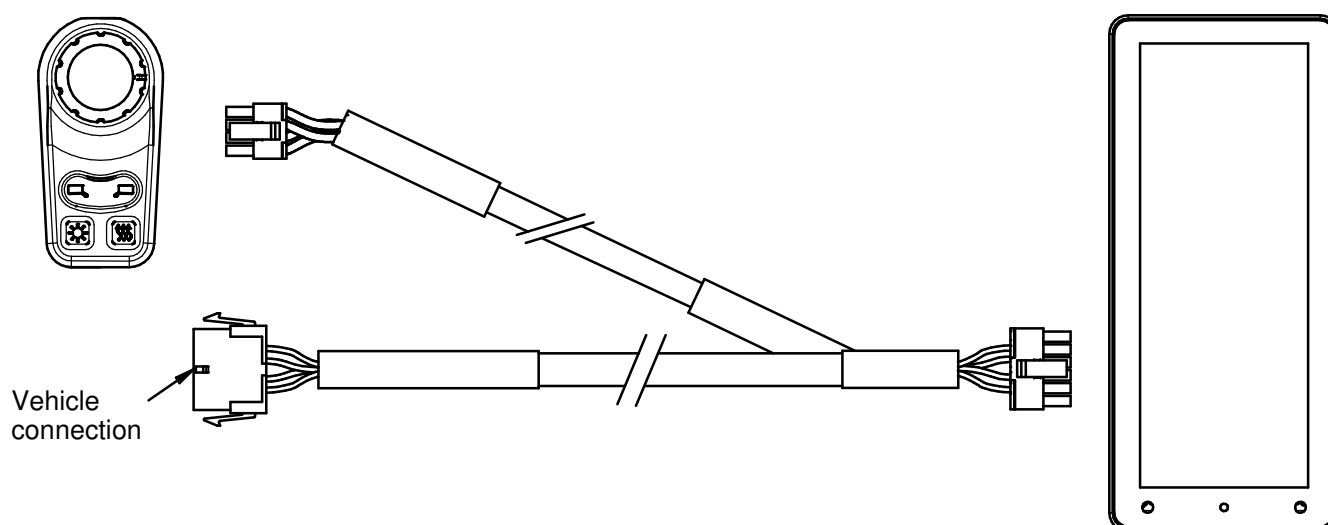
Minimum cable bending radius

Units in mm

3.4. Connections

Reference number 30 00 420

Find below connection of the system to vehicle and monitor with power cables and GND.



Note: See document "Manual Joystick eMirror" for connection details.

4. Change log

V 02/2024:

- Document release

V 05/2024:

- Updated alert box design