



## PARKING SYSTEM SERIES 012

[www.laserline.it](http://www.laserline.it)





**Since 1987, year of foundation, LASERLINE it has been always distinguished and recognized for being an avant-garde company that has placed technology, reliability, innovation and customer service as the focus of their work, trying, with success, to act in advance with its time. Now the challenge happens again and Laserline is sure to defeat it. The constant care in researching and developing our products has led LASERLINE to obtain the quality certification UNI EN ISO 9001 already since 1996. Our philosophy of total quality management implies any effort to the complete customer satisfaction.**



LASERLINE range of products meets the requirements of the following European rules:

- \* 95/54 concerning the Electromagnetic Compatibility (EMC)
- \* 95/96 concerning protection device against unauthorised use of motorvehicles
- \* 99/05 CE on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity.



# EPS series 012

Our Electronic Parking Systems are able to assist the driver during reversing. The detection of the obstacles is signaled by an external loudspeaker (with integrated LED), that generates acoustic signals that change tone and frequency in relation to the distance from the obstacle.

## Our range of products includes:

EPS4012 - EPS 4 rear sensors

EPS4012F - EPS 4 front sensors

EPS8012 - EPS 8 sensors (4 rear+4 front)

EPS4012-16M – EPS 4 rear sensors 16mm

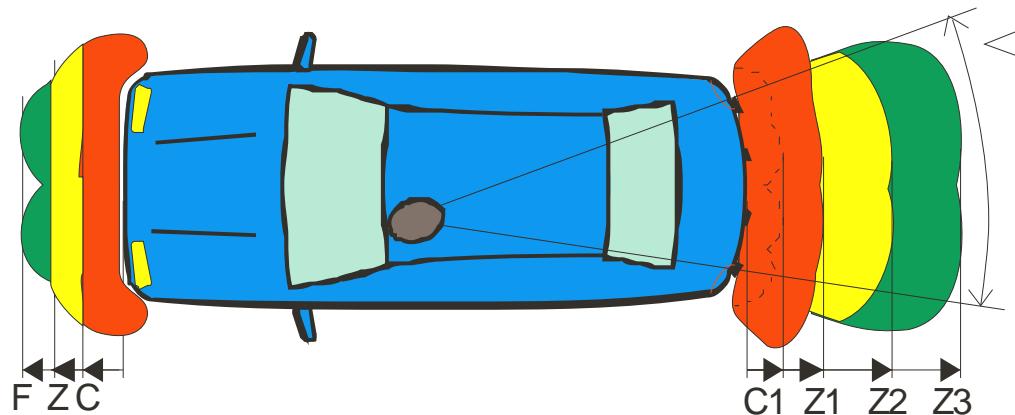
EPS4012F-16M – EPS 4 front sensors 16mm

EPS8012-16M – EPS 8 sensors (4 rear+4 front) 16mm



# EPS series 012 - DETECTED ZONES

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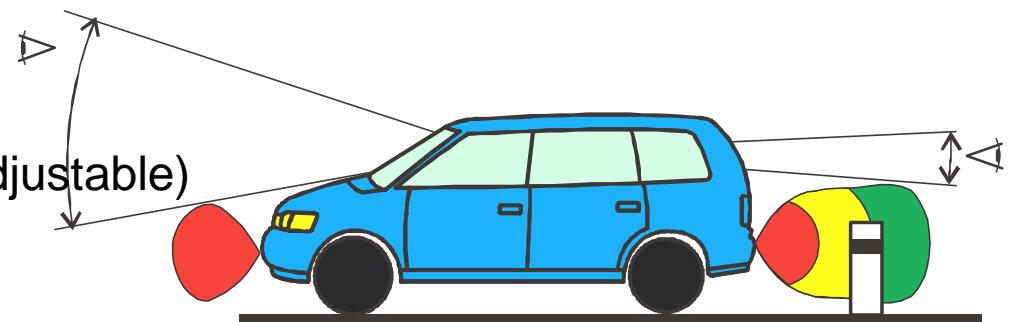


Range zone: 180 cm (adjustable)

1st warning zone: 130 cm

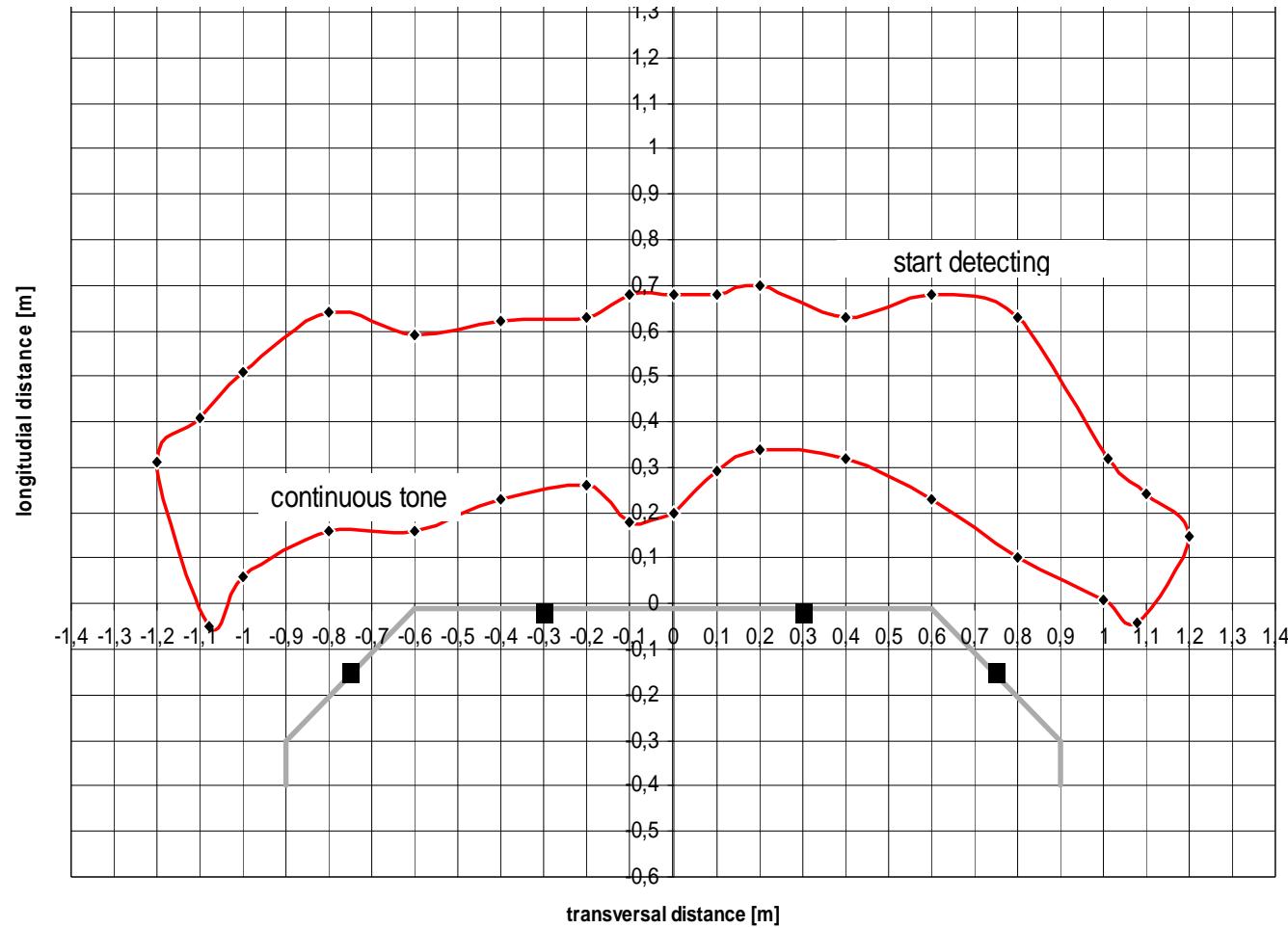
2nd warning zone: 80 cm

Stop zone: 50 cm (continuous tone - adjustable)



# EPS series 012

## FRONT DIAGRAM SENSORS (factory settings)

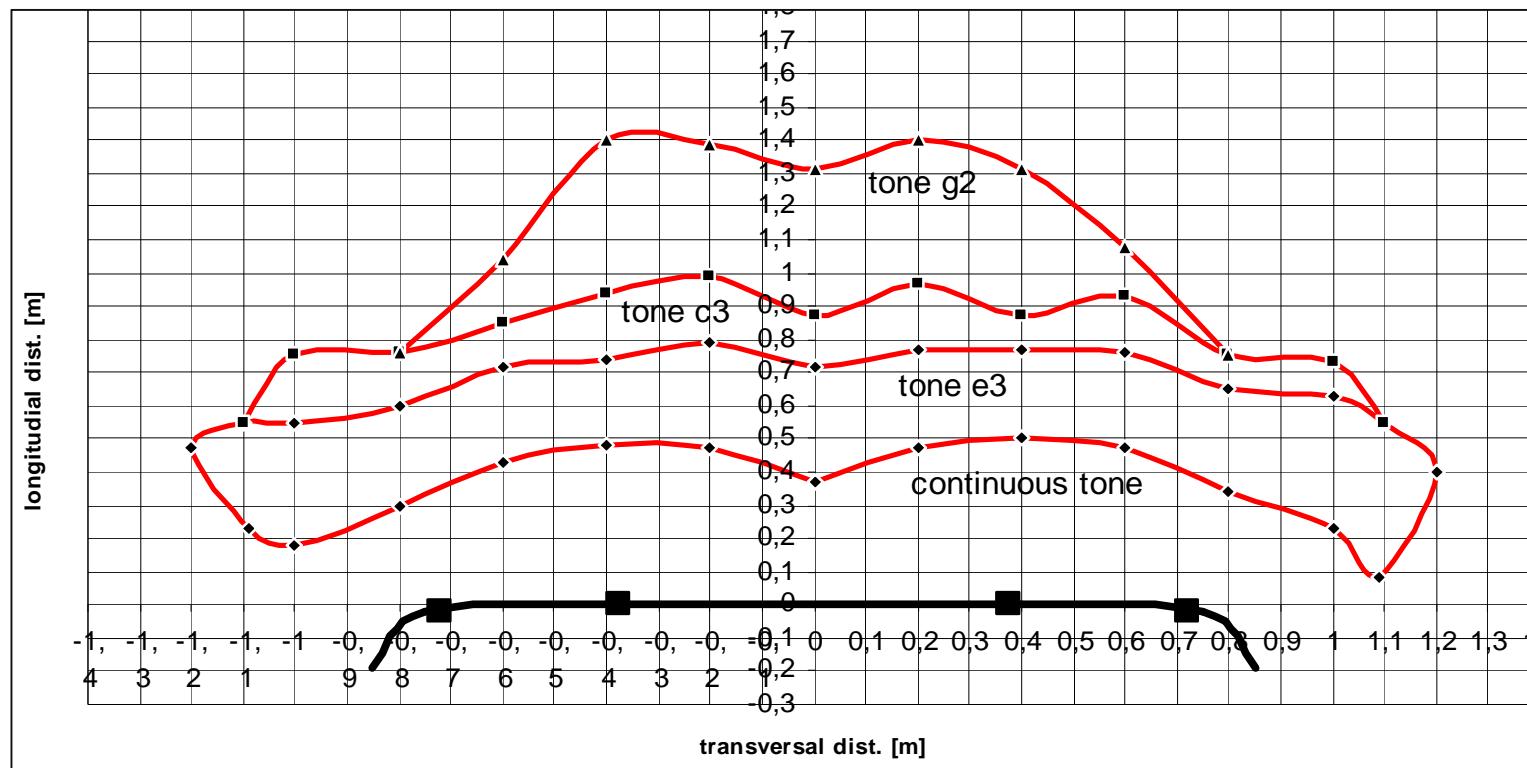


(diameter of the obstacle 130mm)



# EPS series 012

## BACK DIAGRAM SENSORS (factory settings)



# EPS series 012 - E.C.U.

## MAIN PROGRAMMABLE PARAMETERS

- Range of sensor detection zone
- Stop zone
- Intelligent detection, compatible with presence of external spare tire, tow hitch, bike rack
- Selectable activation of front sensors with time-window or ON/OFF push-button
- Speaker volume
- 12/24v power supply
- Service display
- Sensitivity adjustment
- Self diagnostic



# EPS series 012 - SENSOR

ASSEMBLY PROCESS OF SENSOR



- Active digital sensors
- High immunity to electromagnetic interference
- High response speed
- Transmission of the signal detection to units with already processed
- Totally waterproof
- Do not require shielded cables
- High adaptability to the conformity of the bumper



## EPS series 012 - SPEAKER

### Cables resistant to high temperature

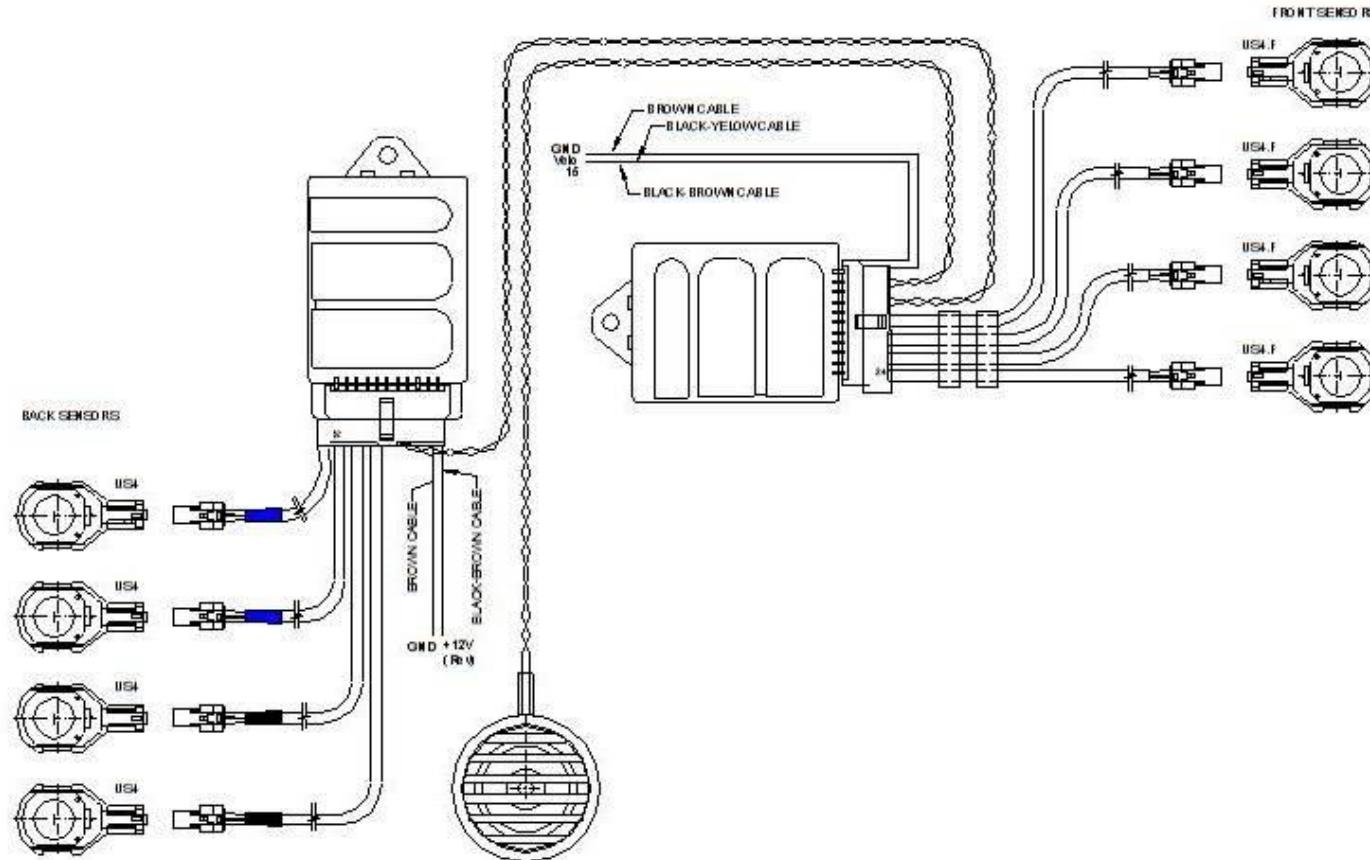
The cables that joint the sensors to the ECU are special cables with HIGH costant heat. They are certified into the range -40 +125°C and able to resist to the high temperatures near the engine compartment.

### Loudspeaker with LED

The external loudspeaker has an integrated LED in order to combine acoustic + optical signalling of the obstacle.



# EPS series 012 - LAYOUT OF INSTALLATION



# EPS series 012 - APPROVAL CERTIFICATE



**REPUBLIK ÖSTERREICH**  
Bundesministerium für Verkehr, Innovation und Technologie

## EWG-Typgenehmigungsbogen EEC-TYPE APPROVAL CERTIFICATE

Benachrichtigung über

Communication concerning

- die Typgenehmigung
- die Erweiterung d. Typgenehmigung
- die Verweigerung d. Typgenehmigung
- den Entzug d. Typgenehmigung
- *the type approval*
- *the extension of the type approval*
- *the refusal of the type approval*
- *the withdrawal of the type approval*

für eine Type eines Fahrzeugs / Bauteils / einer selbständigen technischen Einheit in bezug auf die Richtlinie 72/245/EWG, zuletzt geändert durch die Richtlinie 95/54/EG

of a type of vehicle / component / separate technical unit with regard to directive 72/245/EEC as last amended by directive 95/54/EC

Typgenehmigungsnummer:

e12\*72/245\*95/54\*0206\*00

Type Approval No:

Genehmigungszeichen:

e12 02 0206

Approval mark:

## ABSCHNITT I – SECTION I

0.1	Fabrikmarke (Firmenname des Herstellers): <i>Make (trade name of manufacturer)</i>	Laserline (Laserline S.p.A.)
0.2	Type und allgemeine Handelsbezeichnung(en): <i>Type and general commercial description(s)</i>	Elektronisches Einparksystem, *00*
0.3	Merkmale zur Typidentifizierung sofern am Fahrzeug / Bauteil / an der selbständigen technischen Einheit vorhanden: <i>Means of identification of type if marked on the vehicle / component / separate technical unit</i>	Aufkleber sticker
0.3.1	Anbringungsstelle dieser Merkmale: <i>Location of that marking</i>	auf der Modulunterseite <i>on the underside of modul</i>
0.4	Fahrzeugklasse: <i>Category of vehicle:</i>	---
0.5	Name und Anschrift des Herstellers: <i>Name and address of manufacturer:</i>	Laserline S.p.A. I-20040 Roncello

**Beschreibungsbogen Nr. 30628**  
hinsichtlich der Typgenehmigung für eine elektrische/elektronische Unterbaugruppe  
in Bezug auf die elektromagnetische Verträglichkeit (72/245/EWG), zuletzt geändert  
durch die Richtlinie 95/54/EWG der Kommission  
Information document No 30628 relating to EC type-approval of an electric/electronic  
subassembly with respect to electromagnetic compatibility (72/245/EEC), as last amended by  
Commission Directive 95/54/EWG

0. ALLGEMEINES / GENERAL		
0.1 Fabrikmarke (Firmenname des Herstellers): <i>/ Make (trade name of manufacturer):</i>	Laserline S.p.A.	
0.2 Typ: / Type	*00*	
Gegebenenfalls Aufschlüsselung der Varianten-Versionen innerhalb des Typs <i>/ coding of variants/versions within the type, if applicable</i>		
EPS4006D	Laserline	No differences to EPS 8006, only brand name
FPEPS4006D	Flashpoint	No differences to EPS 8006, only brand name
GEPSP4006D	Gamma	No differences to EPS 8006, only brand name
EPS4006	Laserline	No differences to EPS 8006, only brand name
FPEPS4006	Flashpoint	No differences to EPS 8006, only brand name
GEPSP4006	Gamma	No differences to EPS 8006, only brand name
EPS8006	Laserline	No differences to EPS 8006, only brand name
FPEPS8006	Flashpoint	No differences to EPS 8006, only brand name
GEPSP8006	Gamma	No differences to EPS 8006, only brand name
EPS8006D	Laserline	No differences to EPS 8006, only brand name
FPEPS8006D	Flashpoint	No differences to EPS 8006, only brand name
GEPSP8006D	Gamma	No differences to EPS 8006, only brand name
EPS8005	Laserline	No differences to EPS 8006, only brand name
FPEPS8005	Flashpoint	No differences to EPS 8006, only brand name
GEPSP8005	Gamma	No differences to EPS 8006, only brand name
EPS8006N	Laserline	No differences to EPS 8006, only brand name
FPEPS8006N	Flashpoint	No differences to EPS 8006, only brand name
GEPSP8006N	Gamma	No differences to EPS 8006, only brand name
EPS8006N	Laserline	No differences to EPS 8006, only brand name
FPEPS8006N	Flashpoint	No differences to EPS 8006, only brand name
GEPSP8006N	Gamma	No differences to EPS 8006, only brand name
EPS4006D	Laserline	No differences to EPS 8006, only brand name
0.3 Merkmale zur Typidentifizierung, sofern am Bauteil/an der selbständigen technischen Einheit vorhanden (b): <i>Means of identification of type, if marked on the component/separate technical unit (b):</i>	Aufkleber Sticker	
0.3.1 Anbringungsstelle dieser Merkmale: <i>Location of that marking:</i>	auf Modulunterseite <i>on underside of modul</i>	
0.5 Name und Anschrift des Herstellers: <i>Name and address of manufacturer:</i>	Laserline S.p.A. Via Don Locatelli, 51; 20040 Roncello (Milano) Italy	
Gegebenenfalls Name und Anschrift des Beauftragten des Herstellers: <i>Name and address of authorised representative, if any:</i>	Dipl.-HTL-Ing. Wolfgang Baumgartner Dr. Heinrich Maierstr. 46-50/2/16 1180 Wien	
0.7 Bei Bauteilen und selbständigen technischen Einheiten, Lage und Anbringungsart des EG-Genehmigungszeichens: <i>In the case of components and separate technical units, location and method of affixing of the EC approval mark:</i>	Aufkleber auf Geräterückseite <i>Sticker on Backside</i>	



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## EPS series 012 - EXAMPLES OF INSTALLATION





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