

DELTAFieldLAS

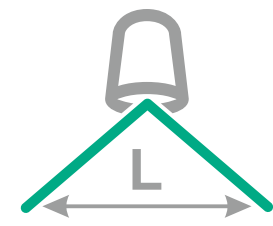
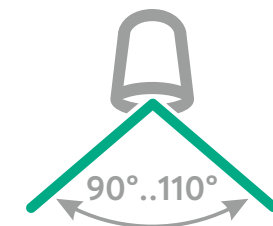
industrial projectors



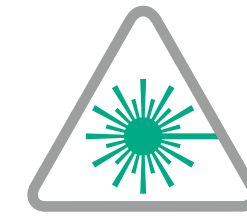
PRODUCT DATASHEET

- Applications
- Features
- Specifications
- Line Width and Length
- Magnetic Bracket
- User's Manual

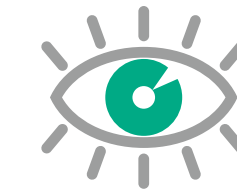


Adjustable
Line LengthProjection Angle
90° ~ 110°

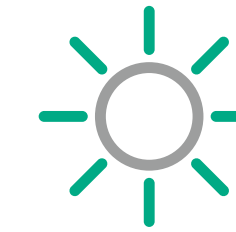
Green or Red color



Class 2, 3R



Excellent Visibility



Maximum Brightness

Certified Dust & Water
Protection

DELTAFieldLAS

Powerful laser projector for the projection of road markings in the industry.

Delta FieldLas Series is a laser projection system for line projection with multifunctional industrial applications. It is easy to install and adjust, with the capability to adjust the length of the projection line and to adjust the line thickness in advance. It is ideal for industrial applications that require a sufficiently powerful laser to project bright lines over long distances. It is safe enough so special safety goggles are not needed.

Delta Field Laser Series is available in Green color 520-530 nm and Red color 638 nm.



Features

- The new latest laser technology with the most bright and solid lines
- Improved longevity due to diode laser source
- Microprocessor control
- Protection rating IP67
- Installation in the open or inside buildings
- Solid enclosure
- Easy to install
- Precise mount, rotatable at 360°
- Heating control
- Integrated motion sensor

Applications

- Replacement of traditional zones or painted paths
- Creation of lines in applications where tape or paint do not work (dusty, cold, dirty work areas)
- Definition of pedestrian and forklift areas
- Securing of overhead cranes and zones
- Definition of areas for semi-trailer docks

Technical Specifications

Wavelength, nm	● 530±5	● 638
Laser power (*inner), mW	≤1400	≤1200
Laser class	2, 3R	2, 3R
Technology	Diode	Diode
Heating	(on-request)	(on-request)
PIR motion sensor	(on-request)	(on-request)
Operating temperature, °C	-40 ~ +40	-40 ~ +40
Storage temperature, °C	-40 ~ +85	-40 ~ +85

Optical Specifications

Projection Line Angle, °	90 – 110			
Focus	Fixed			
Line Thickness, mm	40 – 80			
Line Length, m	see also the scheme on next page			
• Openin Angle, °	90	90	110	110
• Distance, m	5	10	5	10
• Approx. Line Length, m	10	20	14	28,5

Mechanical Specifications

Dimensions, mm	Ø80 x 175±5
Net Weight, kg	1,8
Protection rating	IP67

Electrical Specifications

Input Voltage, V (DC)	12 – 24
Input Current, mA (max)	2000
Temperature Protection	Yes
Electrical Protection	Polarity reversal, Overvoltage protection, Overheating protection
Connection	M12, 4 pin Industrial connector, IP67
Power Cable Lenght, m	5 / 10 / 15 / 20 (on request)
Power Supply Unit	A: Plug and play Adapter 24V/36W, sku: GST-36E24-P1J B: Switching Power Supply, sku: LPV-35-24

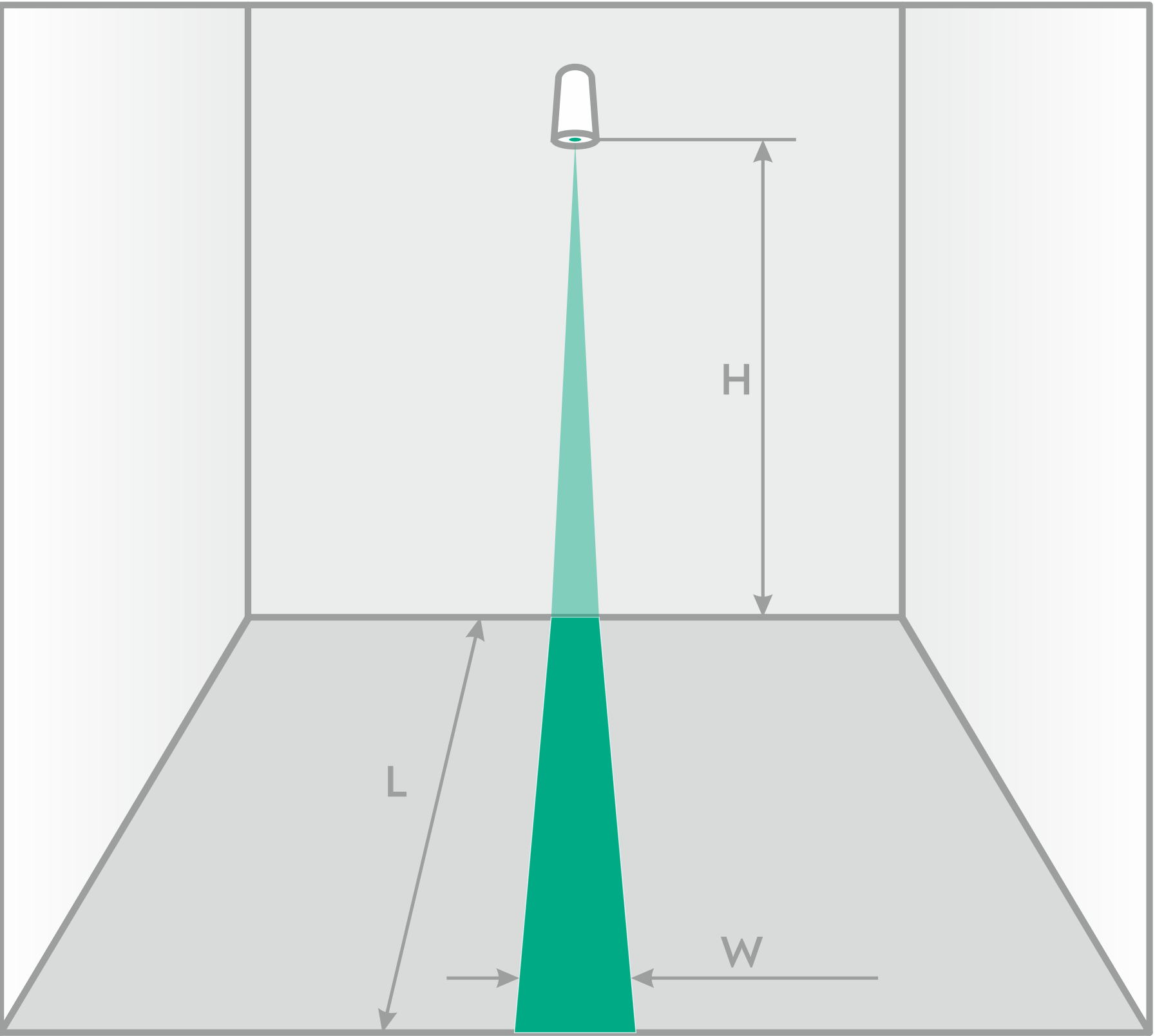
Input M12 Connector (optional)



- Brown Pin 1 – positive
- Blue Pin 3 – negative

Pin 1 + (12 – 24V DC) – Brown wire color
Pin 3 – (12 – 24V DC) – Blue wire color
Pin 2 opto-isolated laser on/off +
Pin 4 opto-isolated laser on/off -

Line Width & Lenght



Line Width (W), mm

Height (H), m	5,0	8,0	10,0	12,0
Line Width (W), mm	40	55	60	85

Line Width (W), in

Height (H), ft	17	26	33	40
Line Width (W), in	1,57	2,17	2,36	3,47

Line Lenght (L), m

Opening Angle, °	90	90	110	110
Distance, m	5	10	5	10
Approx. Line Lenght, m	10	20	14	28,5

Line Lenght (L), ft

Opening Angle, °	90	90	110	110
Distance, ft	16,4	32,8	16,4	32,8
Approx. Line Lenght, ft	32,8	65,62	45,93	93,50

Unit Specifications

Precise rotation lock
of the laser with knobs

Bracket ring

Mounting bracket
(for ceiling or wall mount)

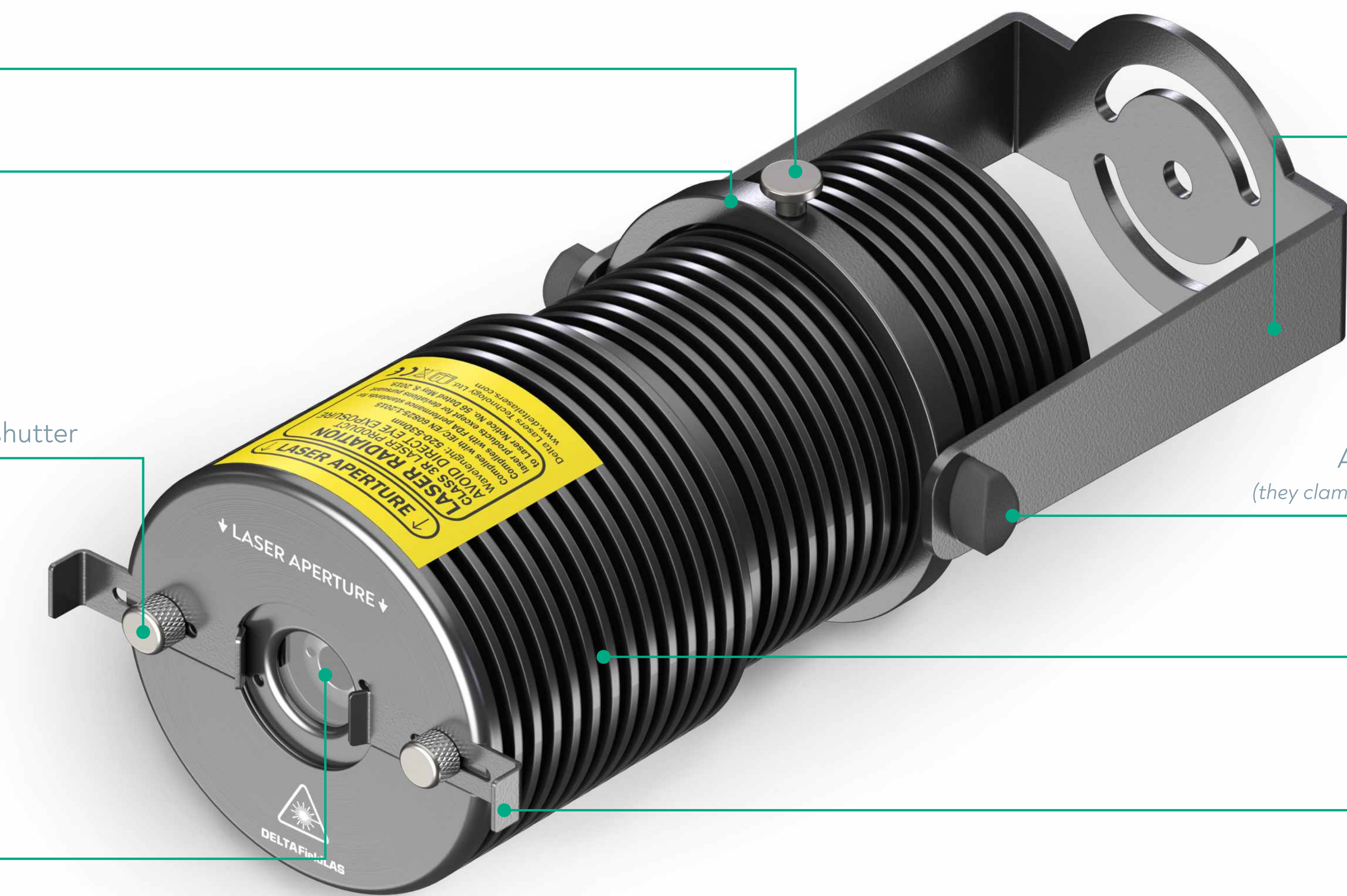
Locking knobs for laser shutter

Adjustment knobs of the laser tilt
(they clamp tight and prevent the laser from moving)

Aluminum body
(black anodized)

Laser shutter
(manual adjust the line lenght)

Laser Aperture

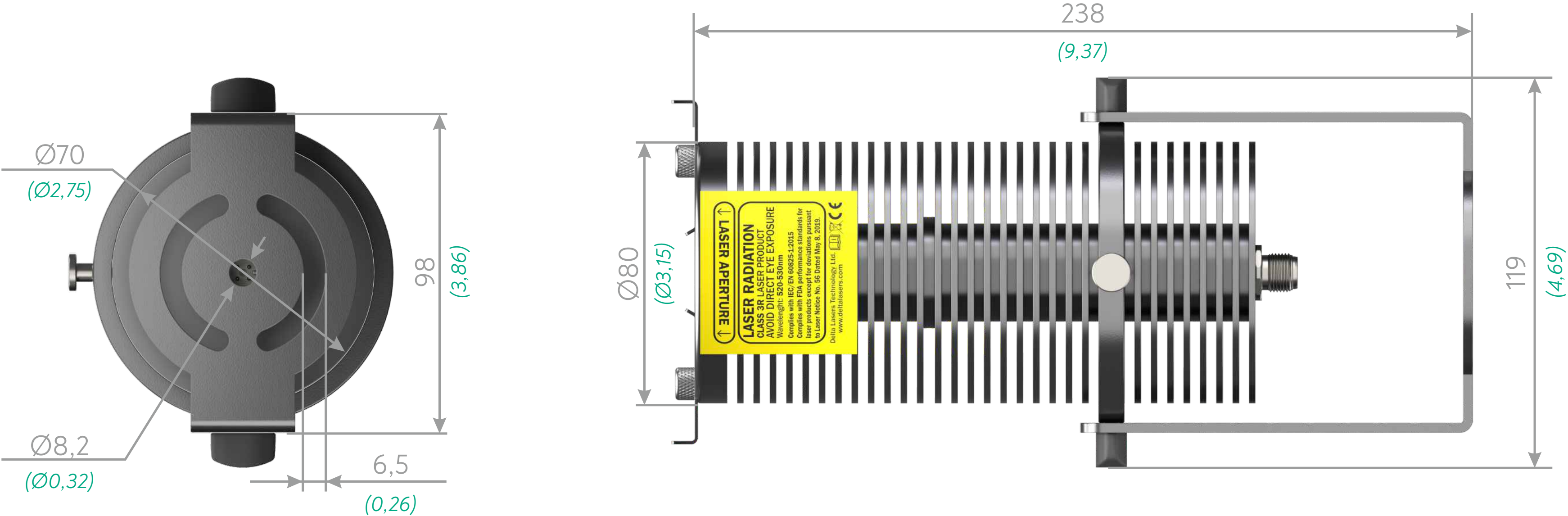


Drawing Specifications

All sizes are in mm (inches).

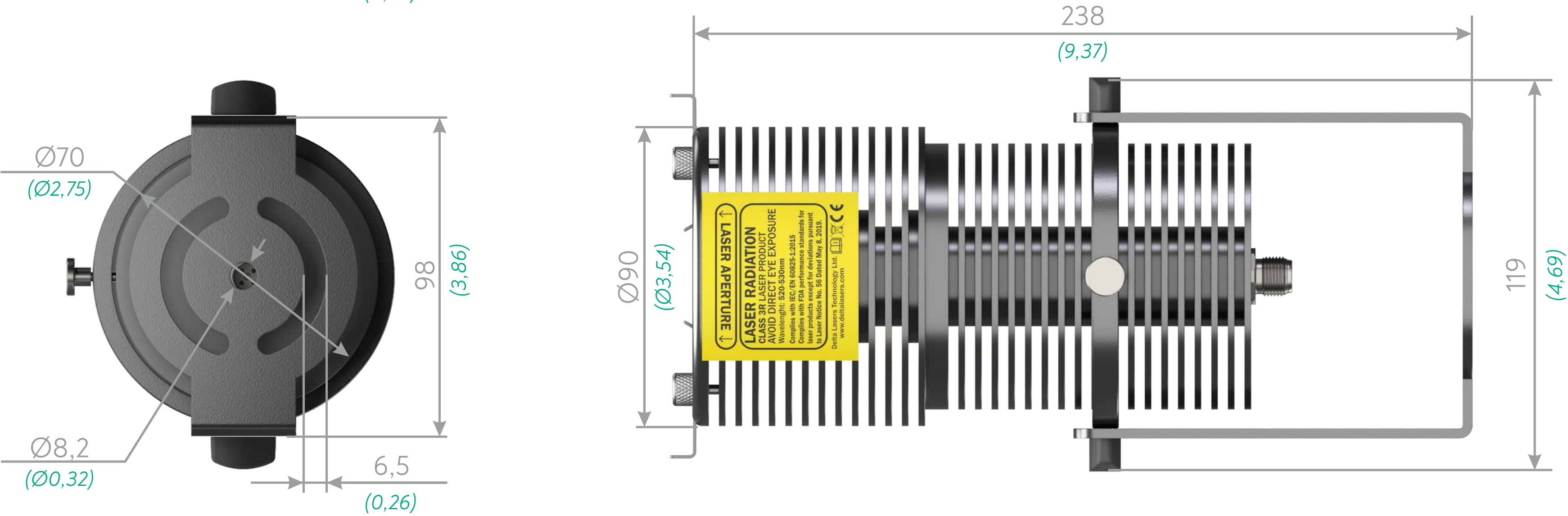
Model

SKU: Delta FL 1200R



Model

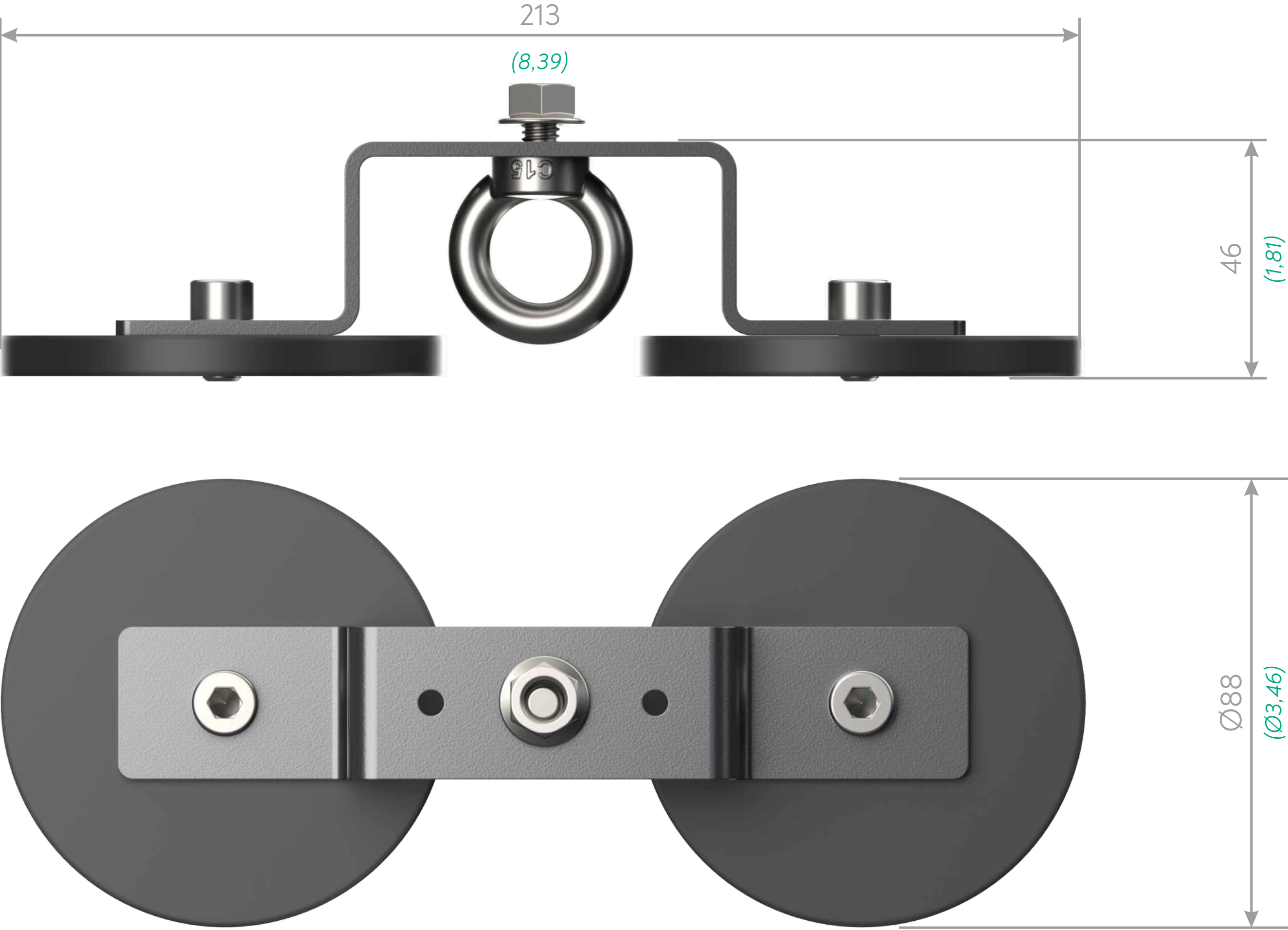
SKU: Delta FL 1400G



Magnetic bracket

Order Code/SKU: FL-MAG88

All sizes are in mm *(inches)*.



User manual

Attention

This product guide contains important information for the safe installation and use of this product. Please, read and follow these instructions carefully. Keep this manual in a safe place for future reference.

Safety: According to the latest guidelines in EN 60825-1, line lasers are so-called “extended sources” and can be treated more simply than normal bundled sources for spot lasers.

- Class IIIR Laser Product - Avoid direct prolonged eye exposure (do not stare directly at the beam).
- Nominal distance for eye safety 2 meters (take care when installing at close distances).
- When unpacking and before discarding the carton packing, please check for any shipping damages before using the product. If there is any damage caused by transportation and transit, please consult the manufacturer immediately and do not use it. Failure to do so will void your warranty.

Instructions

- The product should only be installed, operated, maintained and connected to the electrical power grid by qualified, trained personnel.
 - Before installing, examine all power requirements to make sure that the voltage and frequency of the power supply correspond to the power required by the product.
 - Do not connect this unit to any type of dimmers or at close range. Do not project laser light directly onto reflective materials such as glass, mirrors, metal objects, etc.
 - Avoid direct and prolonged exposure of the eyes to laser light. Do not stand or look at the laser light at any distance. Laser light can be harmful to the eyes at close range and prolonged exposure.
- The Delta Field Las industrial laser is a professional tool designed to replace traditional road marking, not a toy.
- When installing the laser projector, please be sure to follow the installation instructions carefully and secure firmly all parts, including any screws, grips, etc.
 - Keep the laser projector body and the front glass-covered aperture clean at all times. Use only cotton swabs (dry or moistened with clean medical-grade alcohol or water) to clean the glass. Do not use other cleaning fluids to clean the glass.
 - When cleaning, wipe several times in one direction, and then repeat the movements in a perpendicular direction. If the internal optics get dirty, consult the manufacturer.
 - Please do not attempt to disassemble and/or alter the internal structure of the product. Opening the device housing will void your warranty and expose you to Class IV laser radiation.
 - If any part of the laser projector becomes damaged, stop using it immediately. All repairs must be carried out by qualified

personnel. If the product is within the warranty period, contact the manufacturer for repair or replacement.

- If the red LED above the laser projector glass turns red, this indicates the connection of input voltage to the laser.
- If the laser beam is off, this means that the operating temperature is too high or too low and the electronic control of the laser diode has switched to protective mode. Do not use the system if the ambient temperature is higher than 45°C or lower than -15°C.
- If the laser is not used, the storage temperature should be from -40°C to + 85°C and the humidity level should be maintained from 20% ~ 90% relative humidity.

Special notes

- Laser radiation is dangerous to human eyes if the exposure is direct and prolonged. Avoid staring directly at the beam at close range.
- Remember to install the laser projector correctly. Damage during the installation will void the factory warranty.
- As with any light source, when the laser projector is operating, it generates heat. Keep away from all flammable or combustible materials.
- DO NOT directly observe the laser light with any optical devices such as binoculars.
- This product comes with a factory warranty of 1 year. Outside this period, we provide paid services for the maintenance or replacement of spare parts. Force majeure cases or user errors are not covered.

Laser installation

- Attach the laser to the appropriate place using the laser mount.
- The attachment is done by means of bolts with a diameter of 8 - 10 mm and suitable washers.
- The distance from the laser to the surface on which the line is projected should be at least 4 meters.

Connection to the electrical power grid

- Observe the standards set by the utility company.
- Grounding of the appliance is required by law.
- Disconnect the plug from the mains socket before performing any maintenance operations.
- If necessary, the power cord must be replaced with a cord of the same type that can be supplied by the Support Center. The replacement must be performed by a qualified technician.

 Conformity according to the directives 2015/30/EU