

The most versatile laser for projecting lines, crosses and dots

The **ML-R** lasers Series have been designed and built after years of research and development for daily use in all types of industrial environments. They are available with laser output power from 1 to 50mW and can project lines, dots and crosses of different sizes

In addition to being highly resistant to any type of shock, the anodized aluminum body guarantees absolute protection for the laser diode, the anti-reflection optics and the electronics (IP67)



The **ML-Red** series is available with different types of power supply which make it usable with all low voltage networks. All models are equipped with electrical protection against voltage peaks to protect the laser diode.

ML-LINE-90° SERIES

For all models of the **ML-R-LINE** Series it is possible to have the laser output with a 90° angle. This model is suitable for special applications and where spaces are extremely limited (**Cod. ..ML-R-LINE-90°**)



Easy to instal



IP67 Protection

IK10



Laser Power
up to 50mW



Reverse Polarity
Protection



MAIN FEATURE

Projection:	Line, Point and Cross
Water and dust-proof:	IP67
Shock-resistant:	IK10
Opening angles available for line:	30°, 40°, 60°, 90°(standard)
Opening angles available for cross:	15°, 45°
Fix optical focal length	on Customer request

LASER TECHNICAL DATA

Laser type:	diode
Wavelength:	650 nm
Color:	Red
Divergence:	0,5mrad
Laser power:	from 1 to 50mW
Class:	1, 2M, 3B
Diode Duration:	30.000 h

ELECTRIC TECHNICAL DATA

Voltage DC:	12/24 Vdc - 5Vdc (max 10mW)
Voltage AC:	12/24Vac
Reverse polarity protection:	YES
Power consumption:	< 200 mA
Connector:	M12/M – 4 pin
TTL Mode:	YES

HOUSING TECHNICAL DATA

Body:	Anodized Aluminium
Water-Dust protection:	IP67

ML RED SERIES

Shock resistant:	IK10
Dimension:	Length 110 mm X Ø 20 mm
Weight:	80 gr.
Operating conditions:	-10°C ... +40°C - < 95% UR

MODELS AND CONFIGURATIONS AVAILABLE

LINE LASER

Laser Power	Model	Laser Safety Class	Line length *90°
1mW	1ML-R-Line	1	Up to 1mt
3mW	3ML-R-Line	1	Up to 2mt
5mW	5ML-R-Line	1	Up to 4mt
10mW	10ML-R-Line	1	Up to 6mt
15mW	15ML-R-Line	2	Up to 8mt
20mW	20ML-R-Line	2	Up to 10mt
30mW	30ML-R-Line	2M	Up to 12mt
40mW	40ML-R-Line	2M	Up to 14mt
50mW	50ML-R-Line	2M	Up to 18mt

LASER DOT

Laser Power	Model	Laser Safety Class
1mW	1ML-R-Point	1
3mW	3ML-R-Point	1
5mW	5ML-R-Point	1
10mW	10ML-R-Point	2
15mW	15ML-R-Point	2M
20mW	20ML-R-Point	2M
30mW	30ML-R-Point	3R
40mW	40ML-R-Point	3B

CROSS LASER

Laser Power	Model	Laser Safety Class	Cross dimension at 1 mt - *15°
1mW	1ML-R-Cross	1	150 X 150 mm
3mW	3ML-R-Cross	1	150 X 150 mm
5mW	5ML-R-Cross	1	150 X 150 mm
10mW	10ML-R-Cross	1	150 X 150 mm
15mW	15ML-R-Cross	2	150 X 150 mm
20mW	20ML-R-Cross	2	150 X 150 mm
30mW	30ML-R-Cross	2M	150 X 150 mm
40mW	40ML-R-Cross	2M	150 X 150 mm
50mW	50ML-R-Cross	2M	150 X 150 mm

* Measure with standard optics. Line length depends on ambient light, focal distance, and from the angle projection.