

BRACKETS:



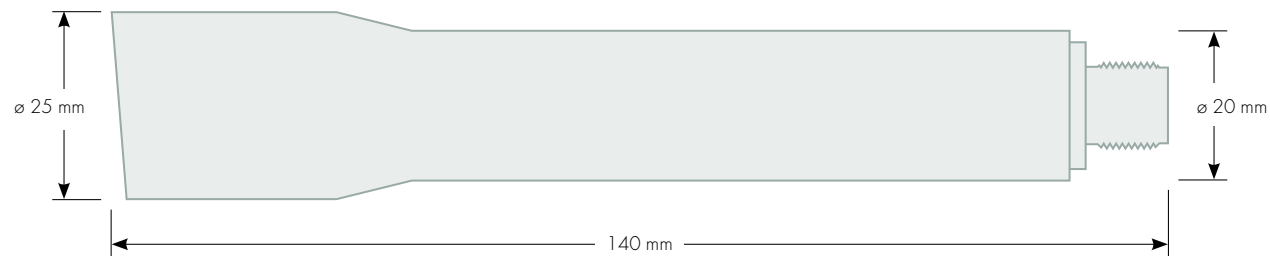
POWER SUPPLY:



CONNECTOR:



DRAWING (1:1):



HD LASER RED
1 ... 30 mW



ROBUST AND FLEXIBLE:

Diode lasers of HD series are designed to withstand the day to day use in harsh industrial environment. The water-proof stainless steel housing protects laser diode, electronic circuitry and precision optics.

The laser diode is galvanically separated from the power supply, which makes the laser extremely resistant to voltage peaks or current variations. The wide range input capacity enables the HD lasers to be used with all typical low voltage power nets.

The optics may be focused without tools. Spot size or line width can be adjusted. The line position doesn't change during focusing.

FEATURES:

- Focusable
- Point, Line, Cross
- „Heavy Duty”, extremely robust
- Protected from voltage variations
- Reverse polarity protected
- Available opening angles line: 10°, 20°, 30°, 40°, 80° (standard)
- Available opening angles cross: 38°, 62° (standard)

Technical data	
Laser type, Wavelength	Diode, 635 nm, red
Power supply	12 ... 30 V DC, 15 ... 20 V AC
Application conditions	-10 ... +40 C, 35 ... 90 % rel. humidity, non-condensing
Enclosure rating	IP 67
Divergence	0,5 mrad
MTTF	> 30.000 h at 25°C
Dimensions	Length 140 mm, Ø 25 mm (front)/20 mm (back)
Connector	M12, 4-pol.

LINE LASERS

Laser power	Product	Laser class*	Line length*
1 mW	LAP 1 HDL	1	up to 1 m
3 mW	LAP 3 HDL	1	up to 2 m
5 mW	LAP 5 HDL	1	up to 4 m
10 mW	LAP 10 HDL	2	up to 6 m
15 mW	LAP 15 HDL	2	up to 10 m
30 mW	LAP 30 HDL	2M	up to 20 m

CROSS LASERS

Laser power	Product	Laser class*	Line length at 1 m distance
1 mW	LAP 1 HDX	1	60 cm/90 cm
3 mW	LAP 3 HDX	1	60 cm/90 cm
5 mW	LAP 5 HDX	2	60 cm/90 cm
10 mW	LAP 10 HDX	2M	60 cm/90 cm
15 mW	LAP 15 HDX	2M	60 cm/90 cm
30 mW	LAP 30 HDX	2M	60 cm/90 cm

POINT LASERS

Laser power	Product	Laser class
1 mW	LAP 1 HDP	2
3 mW	LAP 3 HDP	3R
5 mW	LAP 5 HDP	3R
10 mW	LAP 10 HDP	3B
15 mW	LAP 15 HDP	3B
30 mW	LAP 30 HDP	3B



LAP HD lasers don't resent being treated harshly or being pelted with any kind of chips.

*Standard opening angle 80°, line length depends on ambient light, mounting position and angle