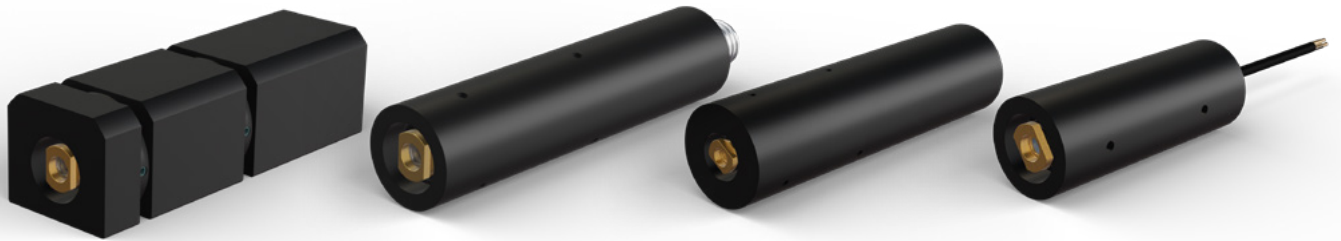


LT-PLM SERIES

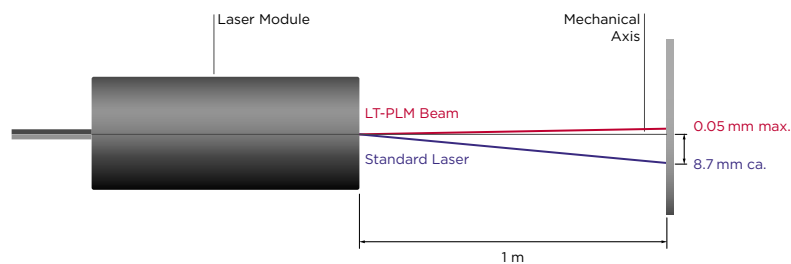
Precision Laser Module



THE HIGHLY PRECISE DOT LASER WITH MINIMAL BORESIGHT ERROR

The precision laser modules of the LT-PLM series are precisely aligned dot lasers for alignment tasks. Precise alignment of the modules results in a very low deviation between optical and mechanical axis and therefore a minimal boresight error. The dot-shaped laser beam is circular (not elliptical) and deviates less than 0.05mm from the mechanical axis of the housing after 1m working distance.

The module is available in a circular housing with 24 mm diameter (LT-PLM-wavelength) or a square housing (32 mm x 32 mm; LT-PLM-Q-wavelength) with M12 connector. A battery operated version without cable can also be purchased in a cylindrical housing with 35 mm diameter (LT-PLM-IRB). For the module without M12 connector but with 2 m cable (LT-PLM-xxx-01-GL65) the length can be decreased to 65 mm.



FEATURES

- / Axis of laser beam and mechanical axis of housing in the same line
- / Circular beam profile
- / Eye safe, without optical instruments
- / Available with M12 connector or rechargeable battery
- / Fixed focus

APPLICATIONS

- / Alignment of machines
- / Concentricity test of rotating parts
- / Aiming or positioning tasks
- / Straightness test of carriages

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PRECISION LASER MODULE

LT-PLM Series



SPECIFICATIONS

Wavelength [nm]	520		635	
Output power [mW]	1			
Beam profile	circular, collimated			
Recommended working distance [m]	0-10	0-3 ^a	0-10	0-3 ^a
Beam diameter at exit [mm]	4.5	1	4.5	1
Beam divergence [mrad]	0.2	1	0.2	1
Beam pointing error [mrad]	0.05			
Operating voltage [VDC]	10-30		4.5-30	
Operating temperature [°C]	0-50			
Laser class	2			

Foot Note

^a For short working distance C1 needs to be added to the ordering code

	Cylindrical housing with M12 connector	Square housing with M12 connector	Cylindrical housing with rechargeable battery	Cylindrical housing with 2 m cable
	LT-PLM-520-01(-C1) LT-PLM-635-01(-C1)	LT-PLM-Q-520-01(-C1) LT-PLM-Q-635-01(-C1)	LT-PLM-IRB-520-01(-C1) LT-PLM-IRB-635-01(-C1)	LT-PLM-520-01(-C1)-GL65 LT-PLM-635-01(-C1)-GL65
Housing	Aluminium, black, anodised, isolated			
Dimensions [mm]	Length: 100 Diameter: 24	Length: 100 Square: 32 x 32	Length: 130 Diameter: 35	Length: 65 Diameter: 24
Connector type	M12 male (Pin1: VCC / Pin3: GND)			2 m cable open leads
Scope of delivery	Precision laser module; Carrying case		Precision laser module; Battery charger; Carrying case	Precision laser module; Carrying case
Accessories	Power supply; Battery pack; Connecting cable			Power supply; Mobile power pack for 635 nm

LT-PLM with integrated rechargeable battery	LT-PLM-IRB-520	LT-PLM-IRB-635
Wavelength [nm]	520	635
Beam diameter at exit [mm]	2	1
Beam divergence [mrad]	0.5	1
Current consumption [mA]	60	45
Rechargeable battery capacity [mAh]	400	400
Operating time [h]	6	8

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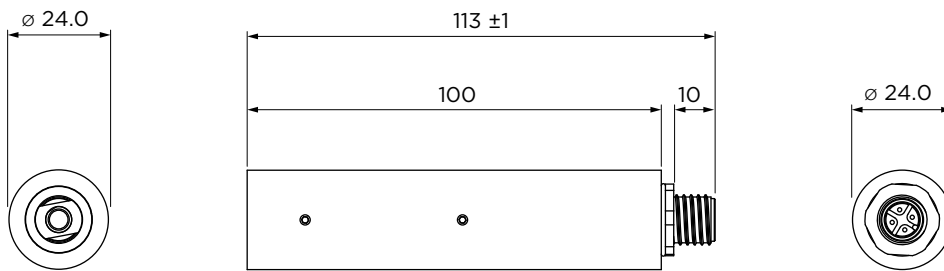
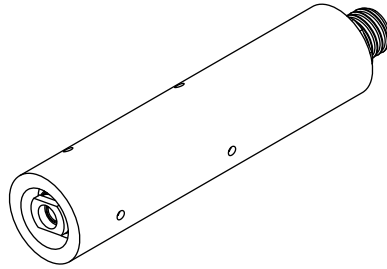
PRECISION LASER MODULE

LT-PLM Series



TECHNICAL DRAWING

Precision Laser Module cylindrical housing, fixed focus and M12 connector



LT-PLM

Units: mm

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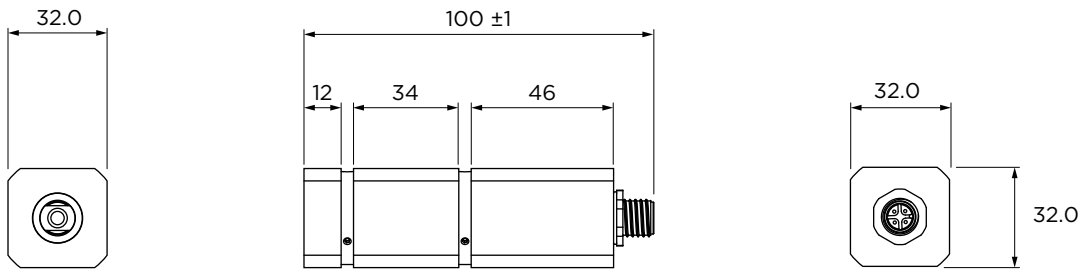
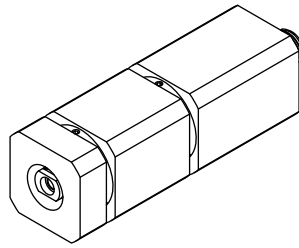
PRECISION LASER MODULE

LT-PLM Series



TECHNICAL DRAWING

Precision Laser Module square housing with fixed focus and M12 connector



LT-PLM-Q

Units: mm

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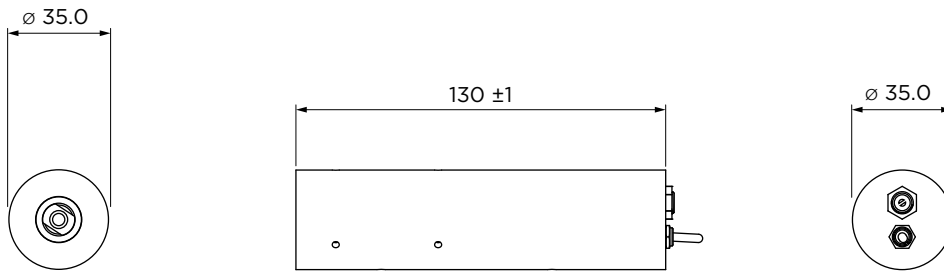
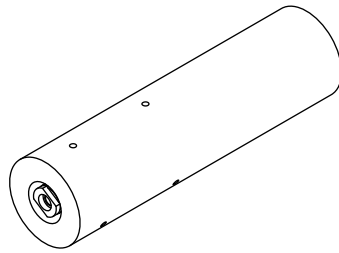
PRECISION LASER MODULE

LT-PLM Series



TECHNICAL DRAWING

Precision Laser Module battery operated fixed focus



LT-PLM-IRB

Units: mm

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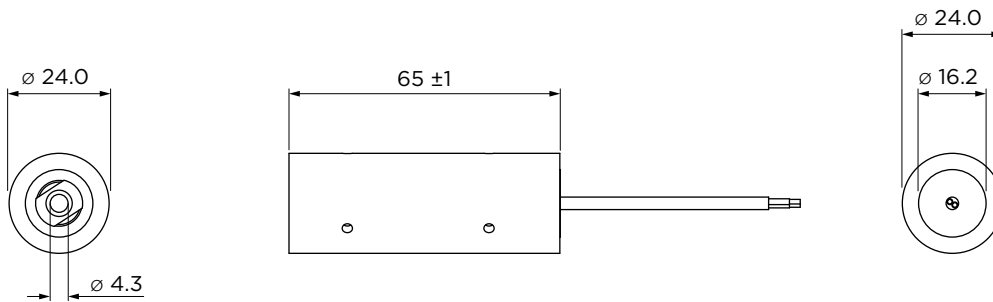
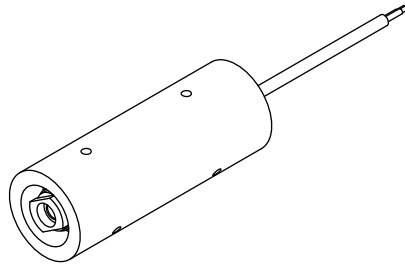
PRECISION LASER MODULE

LT-PLM Series



TECHNICAL DRAWING

Precision Laser Module with fixed focus and 2 m cable



LT-PLM-GL65

Units: mm

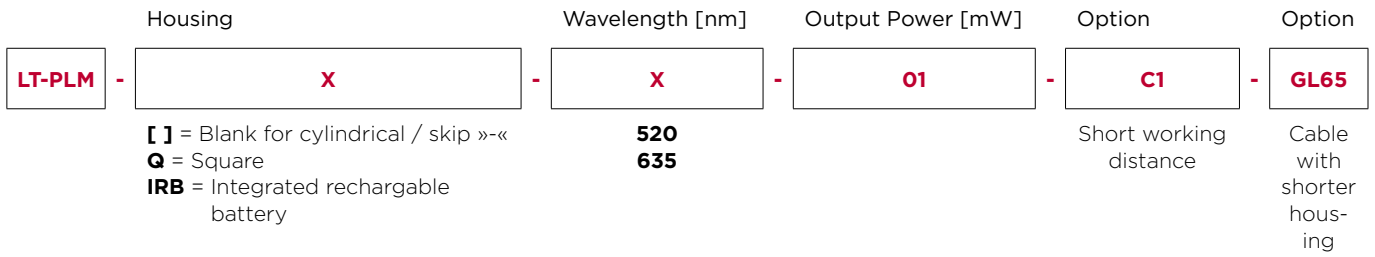
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PRECISION LASER MODULE

LT-PLM Series



ORDERING CODE



Examples: LT-PLM-520-01-C1, LT-PLM-Q-635-01, ...