

ilumVISION

Machine Vision Laser Diode Module

The ilumVISION laser diode module is designed for illumination in machine vision applications. With its homogeneous line it serves applications which need a homogeneous illumination. The options "thin line" or "high depth of focus" offer the possibility for either a high resolution for small structures or for having a high operating range.

FEATURES

- Laser diode module
- Adjustable focus
- Homogeneous line
- Different wavelength and angle available



ilumVISION

Specifications mechanical

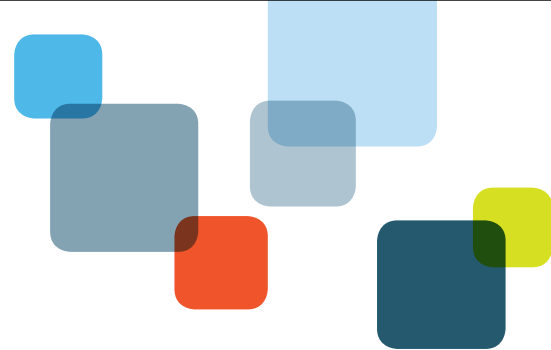
Material	Aluminium anodized
Length	95 mm
Length of cable	n. s.
Diameter	17,9 mm

Specifications optical

Wavelength	520 or 660 nm
Optical output power (max.)	50 or 130 mW
min. line thickness (typ. @ 300 mm distance)	100 µm
Line Homogeneity	± 20 %
Line options	Thin line or high depth of focus
Focus distance typ.	300 mm to 1000 mm
Laser safety class	3B
Beam divergence	n. s.
Beam deviation	10 mrad
Fan angle	30° or 60° (other on request)

Specifications electrical

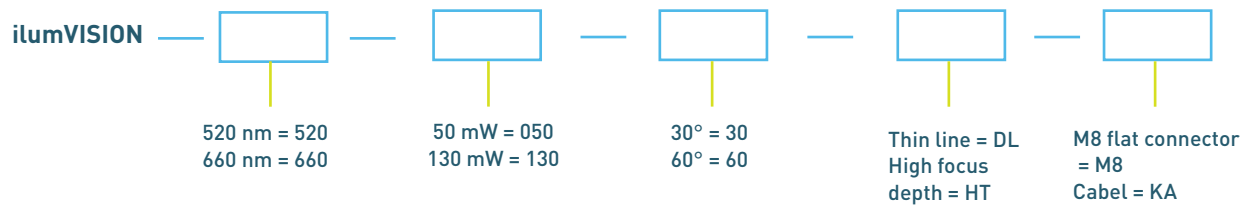
Galvanic isolation	Yes (VCC and modulation input)
Operating voltage Vcc	4.5 VDC to 30 VDC (reverse voltage protection, for all wavelengths)
Operating current	350 mA max.
Modulation voltage	3 VDC - 5 VDC
Modulation	1 MHz
Switch-on delay	150 ns typ.
Switch-off delay	110 ns typ.
Rise time	45 ns max., 37 ns typ.
Fall time	25 ns max., 19 ns typ.
Connection options	M8 flange plug or cable



Wavelength	Optical output		Fan angle		Line type		Connection type	
	50 mW	130 mW	30°	60°	Thin	High focus depth	M8 flat connector	Cabel
520 nm	X		X	X	X	X	X	X
660 nm		X	X	X	X	X	X	X

ORDERING INFORMATION

PRODUCT



For example

ilumVISION-520-050-60-DL-M8
ilumVISION-660-130-30-HT-KA

The above product specifications are subject to change without notice. Release October 2018.

©IMM Photonics GmbH