



Modulated Red LASER Modules

WLTxxx-xx MO, WLSxxx-xx MO

These modulated red light emissive modules are composed of a LASER diode, an TTL modulated electronic driver and a collimation optic system, all packaged in an aluminum case. Each device features an anti-reflex treated high quality glass lens, assuring a good collimation and a limited diffraction. Output power is stabilized over the entire temperature range.

Special features like diaphragm, fixed or adjustable focus, line generator, external power adjustment or 3V power supply are available on request.

See also the collimated output red LASER modules WLx xxx-xx.

Features

- High quality LASER diode
- High quality glass lens
- Stabilised output power

Applications

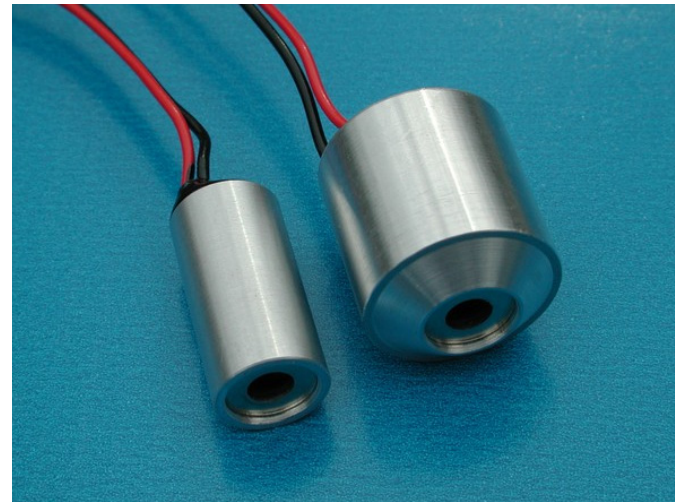
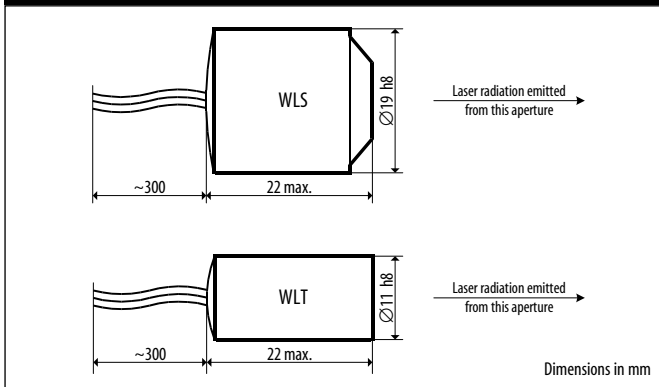
- Smoke detection
- Particles detection
- Distance measurement
- Protection areas
- Barcode readers
- Alignment systems
- Security systems

Technical specifications

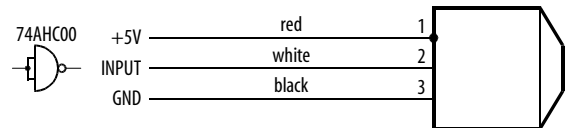
Supply voltage	+5V±10% / 50 mA max.
Output power[†]	1 ÷ 15 mW
Modulation	TTL 10 kHz ÷ 10 MHz, 50% duty cycle
Wavelength[†]	635 ÷ 670 nm
Beam[†]	collimated, 4x2 mm
Divergence	0,4 mrad max.
Boresight	5 mrad typical
Temperature	-10 ÷ 50°C (60°C)
Weight	WLS - 13g, WLT - 6g

[†]See the ordering codes

Mechanical data



Electrical connections



+5V	red	Power supply, connected to case.
INPUT	white	TTL modulation signal.
GND	black	Ground.

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1. +5V connected to case.
 2. Reverse power supply protection is absent.
 3. Reduce wire length at high frequencies.

Ordering codes

WLx xxx-xx MO	1	- 1 mW
	2	- 2 mW
	3	- 3 mW
	5	- 5 mW
	10	- 10 mW
	15	- 15 mW
	635	- 635 nm
	650	- 650 nm
	670	- 670 nm
	T	- Ø11x22 mm
	S	- Ø19x22 mm

Exemple

WLS650-1 MO Ø19x22 mm, 650 nm, 1 mW

