



# 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

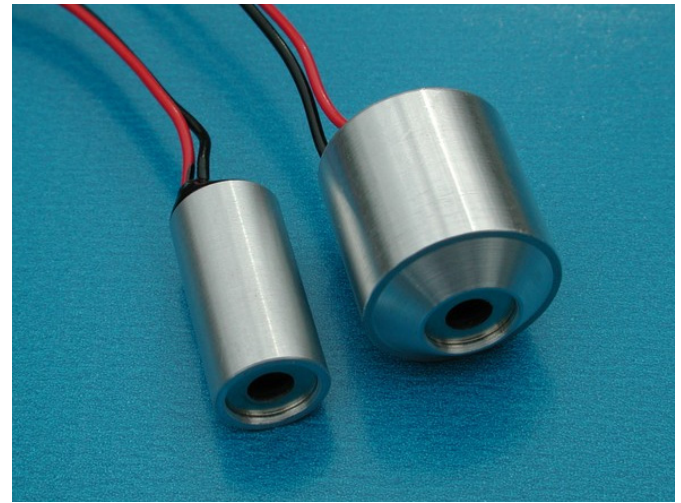
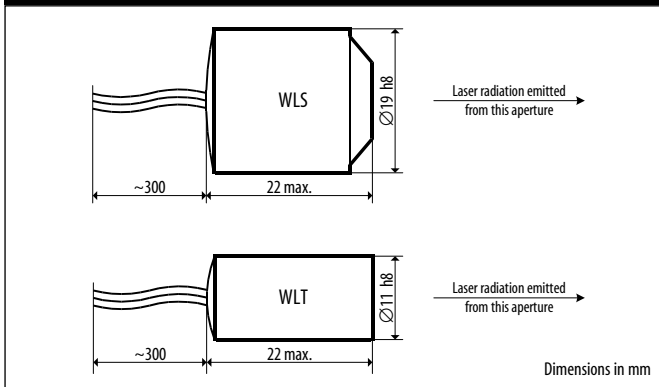
- Smoke detection
- Particles detection
- Distance measurement
- Protection areas
- Barcode readers
- Alignment systems
- Security systems

### Technical specifications

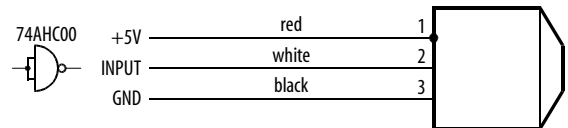
<b>Supply voltage</b> .....	+5V±10% / 50 mA max.
<b>Output power<sup>†</sup></b> .....	1 ÷ 15 mW
<b>Modulation</b> .....	TTL 10 kHz ÷ 10 MHz, 50% duty cycle
<b>Wavelength<sup>†</sup></b> .....	635 ÷ 670 nm
<b>Beam<sup>†</sup></b> .....	collimated, 4x2 mm
<b>Divergence</b> .....	0,4 mrad max.
<b>Boresight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

<sup>†</sup>See the ordering codes

### Mechanical data



### Electrical connections



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

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

### Ordering codes

<b>WLx xxx-xx MO</b>	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

