

## Technical data sheet

### ML-48S-650-3

Large range laser module with beam positioning adjustment



Technical data	
Safety class	3R acc. to PN-EN 60825-1:2014
Wave length	$\lambda = 650 \text{ nm} \pm 10 \text{ nm}$
Optic power	$3 \text{ mW} \pm 0.5 \text{ mW}$
Power supply	2.7 V - 6 VDC (preferred 3 V)
Current consumption	< 50 mA
Laser output beam diameter	$8 \text{ mm} \pm 0.5 \text{ mm}$
Beam divergence	< 0.3 mrad
Factory focusing length	$1.5 \text{ m} \pm 0.02 \text{ m}$
Adjustment range of beam positioning with screws from laser head in both directions $\pm 1,5^\circ$	
Housing and dimensions	Aluminium housing, black, dimensions of mounting flanges $\phi 36 \text{ mm} \times 90 \text{ mm}$
Mounting with three screws M 2.5 x 10 positioned on diameter 28 mm with $120^\circ$ intervals	
Cable	TLWY 2 x 0.124, length : $0.2 \text{ m} \pm 0.01 \text{ m}$
Cable labeling	(+)red , (-) blue
Guarantee	2 years

#### Note:

1. Positive pole of power supply is connected with laser housing.
2. Protect power supply against temporary surges exceeding 6V. In case of power supply from simple mains power supplies, one should first turn on mains power supply and then laser module power supply.

#### Options of execution:

- Other powers, wave lengths
- Internal or external modulation of laser radiation
- Galvanically connected with the housing of negative power supply pole
- Control input to remote laser activation with TTL level ; HCT