



- * *Laser based alarm lamp system with very long observation distance*
- * *Very high intensity and brightness gives good attention*
- * *Very narrow beams makes long installation distance possible*
- * *Available in Blue, Green, Yellow and Red color + possible colour mixing*
- * *Long life times of over 20 000 hours*
- * *Laser safety class 1 equal to harmless for the eye*
- * *Optional alarm for malfunction or broken unit*

LaserAlarmLamps offered by Laseroptronix is an own developed product with very unique characteristics. We use a laser as the lamp and adds special optics to reshape the laser beam to the best way suited for the application. No other lamp can match the laser in giving a parallel beam and high brightness at long range and this is used in all our laser lamps.

Laser Alarm Lamps can be used at very long ranges like light houses and we have tested day time operation at 6000 meter distance with only a lamp consuming 5 Volt and 250 mA in green colour.

Laser Alarm Lamps can be installed far away and still give high attention. Lamps in rail road crossings can be installed together with the gate hardware but still get the needed attention factor at 200-300 meter in distance. The brightness is comparable to normal lamps at 10 meter in distance. This application will have a large increase in traffic safety with laser lamps.

All lamps but red can have a life time of over 20 000 hours and a far superior efficiency in electrical power than any other lamps can offer. Red lamps can work up to 100 000 hours (10+ Years) and are electrically the best in efficiency. Colour mixing can generate almost any colour but increase complexity and price a lot.

Laser Alarm lamps are normally designed to the application and they do always need a discussion between us and you about what is the best solution.

This document is general to tell what the laser lamps can offer for you and your applications.

Many of our products protected by patents and other rights.

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LaserAlarmLamps

Laser illumination systems



Top left Green 532 nm laser beam with 20 degree FOV in smoke
 Bottom left Green 532 nm sub sea illuminator for max 200 m depth
 Top centre a green 532 nm light house lamp of 1 mW at 543 nm
 Top right a red 635 nm light house lamp with 3 mW output.
 Booth the light house lamps are showed by a photo of 500 meter in distance and in full sunshine.

Technical specifications Laser Alarm Lamp systems and solutions

Colour of lamp	Infrared	Red	Green	Blue
Wavelength nm	808-980	635 nm	542 nm	473 nm
Laser mode	All can be single mode or multi mode			
Polarization	All lasers are polarized, De polarizer option			
Optical output from aperture mW	1-100 W	1-1000	1-10 000	1-400
Laser safety class	Class 1 or 4	Class 1 to 4	Class 1 to 4	Class 1 to 4
Option modulated laser light	CW-1GHZ	CW-1GHZ	CW-30 KHz	CW-30KHz
Beam diameter at output	5-300 mm	5-300 mm	5-300 mm	5-300
Beam divergence smallest	0,1 mRad	0,1mRad	0,01Mrad	0,01Mrad
Max beam divergence / Field of view	180 degree	180 degree	180 degree	180 degree
Special optics / circular light	360 degree	360 degree	360 degree	360 degree
Ambient temperature standard Degree C	- 10 to +60	- 10 to +60	+20 to + 60	-20 to+30
Ambient temperature options	- 40 to +80	- 40 to +80	-40 to +60	-40 to+60
Power consumption for low power models	0,2W	0,2 W	1W	10W
Power consumption for high power models	300W	5W	200W	200W
Input voltage	4-6 volt DC	4-6 Volt DC	4-6 Volt DC	12 Volt DC
Smallest size	8x22mm	6x18 mm	12x45mm	125x60x40
Encapsulation	Up to IP 68 on all models, Sub sea versions			

These systems are available in many more models. Pls. contact us for more information about your application.

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