

- * *Laser radar scanner working in the 4-400 meter distance range with high accuracy*
- * *Scan the area beside a fence or border for detecting any movements in the area*
- * *Rapid detection of any type of intruder by size makes dimension based alarms real*
- * *Detects and check predetermined areas for intruders or any type of movement*
- * *Adjustable alarm levels based on position and size of target / obstacle*
- * *Invisible laser beam impossible to see by the bare eye, no beam stop at far end*
- * *Fail safe thinking for demanding applications in rail roads and security*
- * *Output by relay, RS 232 interface, wire less link, GSM Phone or SMS messaging*

LaserFence is produced and developed by Laseroptronix and we have been working with laser radar systems for over 10 years. This system is available in several configurations with different specifications and performance. The main difference between the different models is the distance meter unit and computing performance.

LaserFence can scan in speeds of less 2-5 scan per sec over the demanded area and reacts at anything with volume in the area by the targets natural reflex. Every known objects of interest have a 3D volume. The active laser detects the reflex independent of colour and ambient light.

LaserFence can measure the distance from 4 meter to 200-300 meter and everywhere in the scanned area we can see a human body or other objects larger than 30x30 cm in dimensions. We can see where the object is located and the shape and dimensions of it. This admits smart filters reacting to these parameters.

Output is a relay and a RS 232 output with all parameters in the data string. This can be used for external processing if wanted. We do recommend to have the camera option with IR illumination. This grabs an image when the alarm comes and transmit the image in a desired way to a external place

For special applications we have special models with its own data sheets. Pls. contact us for more details

Many of our productr.

Datablad nr LasersFenceEng 2005 10 31



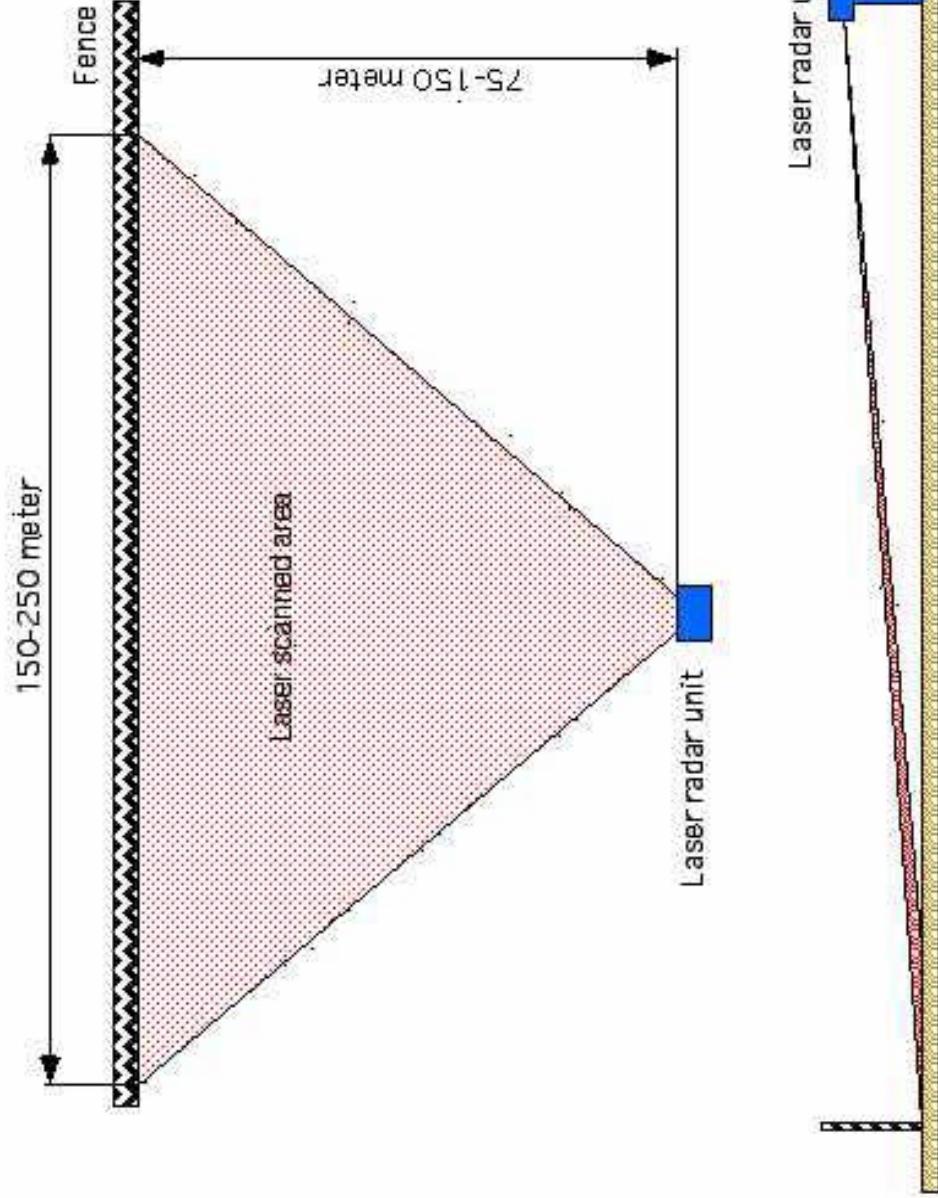
Laser barrier scanner

Plitningsnummer Laser fence S1
Comments.

Datum 2002 01 10

Skala 1/X

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Intruder detection in rail road crossing by Ladar system



Control of areas around aircrafts parked in gates



Alarm system for people walking on the rail tracks in a station

Technical specifications LaserFence laser radar system

Model	LaserFence LF200	LaserFence LF400
Distance range 20% R target	1-200 meter	4-400 meter
Distance resolution	+/- 10 cm at +/- 1 Sigma	1 meter
Internal measurement speed	1000 Hz	200 Hz
Scanning angle	Adjustable mechanically from zero to 60 degree	
Angular resolution	Less 0,1 degree	Less 0.1 degree
Scanning speed	Depending on motor and gear box 1 Hz to 5 Hz	
Response time for alarm	Less 1 sec	1-2 sec
Alarm output	Relay for alarm	Relay for alarm
Standard communication	RS 232 for control and settings	Se left
Optional communication	GSM phone and / or SMS messaging	Se left
Beam diameter at exit	22 mm	25 mm
Beam diameter at 100 meter distance	25 cm	30 cm
Laser wavelength	905 nm near IR	905 nm near IR
Laser safety class	Class 1	Class 1
Laser model	Pulsed Laser diode	Pulsed Laser diode
Aiming system	Optional camera sights or other aiming system	
Temperature range in Celsius (C)	-10 to + 50 degree	- 10 to + 50 degree
Temperature options standard	From - 50 degree c to + 80 degree C by coolers and heaters	
Encapsulation	IP54 Steel cabinet	IP 54 Steel cabinet
Dimensions	450x300x150 mm	450x00x150 mm
Weight	7 Kg	7 Kg
Humidity non condensing	0-100%	0-100 %
Integrated heater for stop condensing	Optional	Optional
Colour	Gray or black or what is preferred by the application	

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

Many of our products are protected by patents and other rights

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