

High resolution sensor for tight butt joints

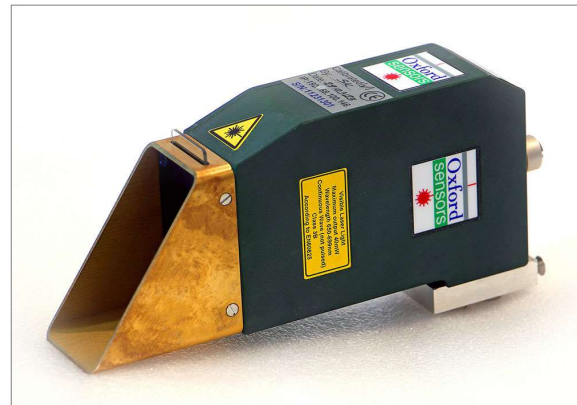
OSL's range of laser sensors has been designed with the benefit of 30 years' experience in the practical use of laser vision systems in welding applications.

Features

- High resolution sensor
- Robust body with integral cooling
- Replaceable front window
- High quality extra fine laser line projector
- Small field of view
- Low power dissipation
- Designed for high temperature operation
- Easy to install, setup and operate

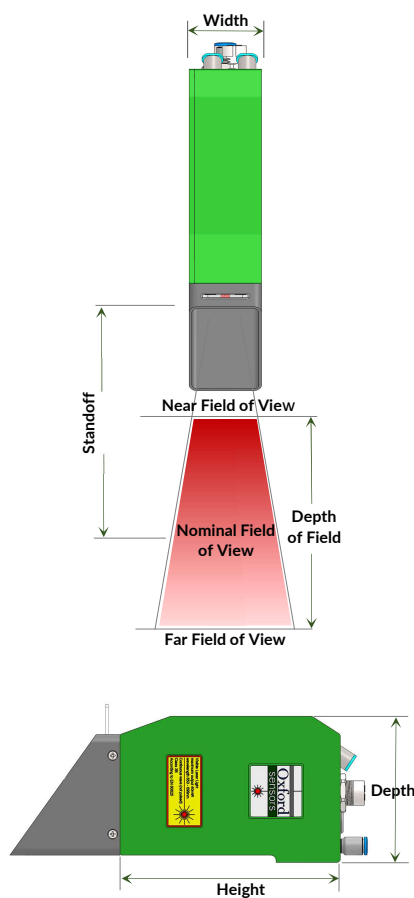
Benefits

- Accurate electrode placement in the joint
- Higher quality welds
- Increased productivity
- Reduced defects & rework
- Improved environment for factory staff



The OSL-10A is a special high-resolution sensor with small field of view for tracking tight butt joints. It utilises a laser module with an extra fine line for working at high levels of precision.

Combined with OSL's tracking software, the OSL-10A provides highly accurate weld seam tracking on tube mills, seamers, welding lathes and similar applications.



OSL-10A			
Field of View	Near FOV	10mm	
	Nominal FOV	10mm	
	Far FOV	10mm	
Depth of Field		10mm	
Resolution	Horizontal	0.005mm	@ nominal
	Vertical	0.016mm	@ nominal
Standoff	Nominal	75mm	
Dimensions*	Width 40mm	Depth 76mm	Height 120mm

General OSL Sensor Data		
Temperature	Operating	0 to +55 °C
	Storage	-20 to +60 °C
Cooling		Gas or Water Cooling
Camera	Frame Rate	30 to 100 fps
	Windowing	Yes
Laser	Power	30mW
	Structure	Single Stripe
	Wave Length	Typically, 685 nm (660nm - 699nm)
	Safety Class	3B (IEC60825-1:2014)
Interface		Gigabit Ethernet
Cable Length	Standard	10m
	Maximum	50m
Power		24VDC +/-10%
Weight		600 g