

## Compact Laser Sensor for Pipe ID Applications

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

- Compact design for pipe ID welding
- Robust body with integral cooling
- Replaceable front window
- High quality uniform laser line projector
- High resolution
- Low power dissipation
- Designed for high temperature operation
- Easy to install, setup and operate

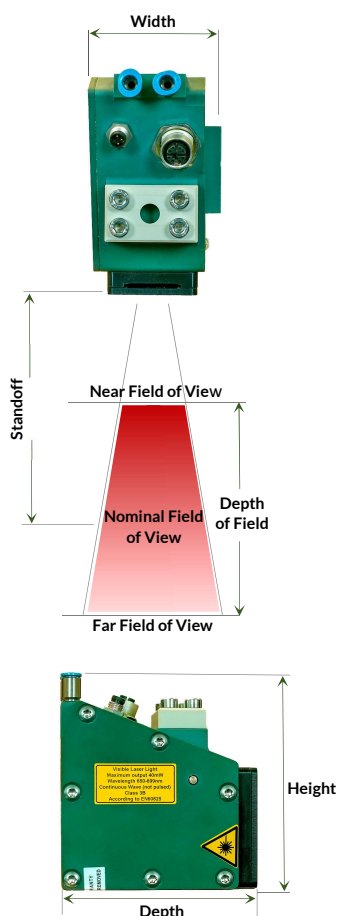
### Benefits

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



The OSL-50C laser sensor is a special compact design for tracking applications inside pipes.

Combined with OSL's tracking software, the OSL-50C provides accurate weld seam tracking in longitudinal and spiral pipe ID welding.



OSL-50C			
Field of View	Near FOV	45mm	@ -10mm
	Nominal FOV	50mm	
	Far FOV	55mm	@ +15mm
Depth of Field		25mm	
Resolution	Horizontal	0.026mm	@ nominal
	Vertical	0.082mm	@ nominal
Standoff	Nominal	50mm	
Dimensions*	Width 56mm	Depth 96mm	Height 105mm

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	50mW
	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