The Logika Technologies visible laser opticated designed for automation of steel. at lines. The OB-VR is used primapplications are: driving the laser optications are: driving the laser optica The Logika Technologies visible laser optical barrier, Model OB-VR, is designed for automation of steel, aluminum, and other mill production lines. The OB-VR is used primarily to detect hot and cold metals, typical applications are: dummy bar detection, thin plate, thick plate, billet and

The OB-VR is specially designed for harsh conditions in heavy industrial environments. The IP66 rugged enclosure protects state-of the-art electronics which allows the sensor to withstand these conditions. The reflector of the OB-VR can operate in temperatures as high as 250°C (482°F).

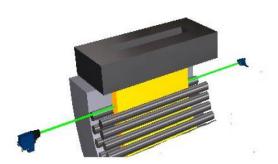


<u>OB-VR</u>	– <u>XXX</u> –	XXX
Base	Power Input	Reflector
Model	024 = 24 VDC	SR = Standard Reflector
	110 = 110 VAC	CPR = water cooled and
	220 = 220 VAC	air purged reflector

Operating Temp	Electronics: -10°C to 45°C (15°F to 115°F). With cooling water: +90°C (195°F) Reflector: 100°C (212°F). With cooling water: 250°C (482°F)		
Power Input	24 VDC, 110 VAC, 220 VAC @ 5 W		
Output	Relay NO/NC @ 5 A, Choice of PNP or NPN "S" type output @ 100 mA		
Response Time	Relay output: Make = 7 ms and Break = 4 ms, PNP/NPN = 1 ms		
Detect Distance	0.5 m to 30 m (1.6 ft. to 98 ft.)		
Target Object	Opaque object larger than φ50 mm (2")		
Emitter Source	650 nm visible red semi-conductor laser, power <5 mW. Class IIIR laser		
Cable	Insulation: 20 MΩ, 500 VDC, ≥500°C (930°F)		
Housing	Cast aluminum enclosure rated IP66, includes cooling water connection and air purge connection		
Size	Enclosure: 235 mm L x 73 mm D x 180 mm H (with mounting bracket) (9.3" L x 2.9" D x 7" H), 2.5 kg (5.5 lbs)		

Key Features

- Designed for harsh environment with IP66 enclosure
- Integrated air purging and cooling water connection
- Visible aiming laser to facilitate aligning the sensor with the process target and reflector.
- Easy to install
- Process status indicator lights



Typica Applications

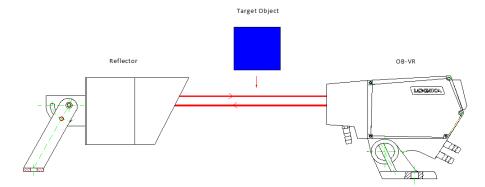
- Detecting bars, billets, plate.
- Detecting dummy bar at caster.
- Furnace entry and exit \succ

Additional Options

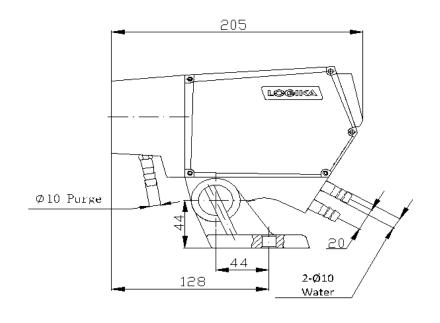
- Junction Box Includes electrical support components
- Shroud Sheet metal protective cover
- Support Stand Steel Construction adjustable for mounting sensors

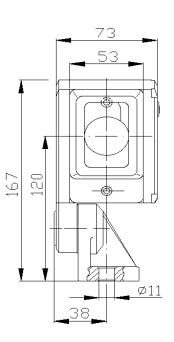
Cable Terminal Wiring Description.

Number	Color	Pin No.	Fun.
1	Brown	К	+24VDC/110VAC/220VAC
2	Red	Μ	0V/Neut/Neut
3	Orange	A	+24VDC Out
4	Yellow	В	0VDC Out
5	Green	G	Ground
6	Blue	J	PNP Hi=Detect
7	Purple	L	NPN Low=Detect
8	Gray	D	Relay NO.
9	White	E	Relay Common
10	Pink	F	Relay NC.



Working Principle





Enclosure Diagram.

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