

HMD-1000-T

STATIC HOT METAL DETECTOR

*NON-CONTACT, RELIABLE, PRECISE DETECTION
FOR ALL PRODUCTS FROM 225°C (400°F)*

HMD-1000-TD



HMD-1000-TL



FEATURES:

- Laser Positioning
- Relay Output and Solid State Output
- Static Output: < 10 μ s, non-isolated
- Response Time: Relay Output: < 7ms;
Solid State & Isolated Output: 0.15ms
- Detects at a distance of 0.2 meters to 10 meters
- Test Function
- 100 – 240 VAC, or 24VDC

APPLICATIONS:

- Tracking
- Positioning
- Cut-to-Length
- Presence Detection



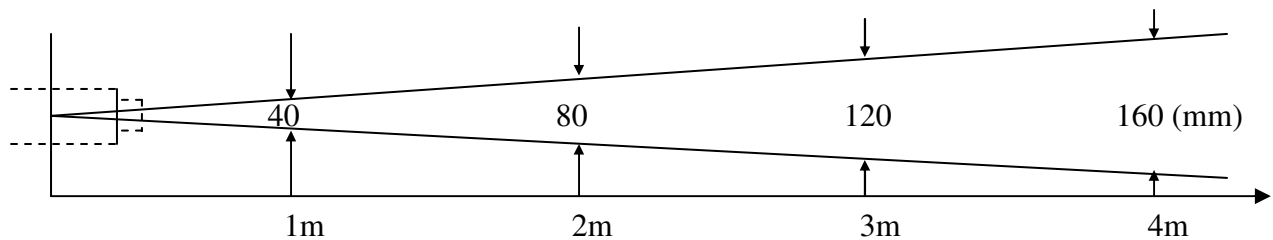
MADE IN THE USA

DESCRIPTION:

The HMD-1000-T is used in monitoring the presence of product over 225°C. It is enclosed in a mill-duty, water-cooled, air-purged housing which is designed for the harsh conditions of steel mills.

The HMD-1000 hot metal detector has the fastest response of all ASC hot metal detectors and probably one of the fastest on the market today.

The detection distance can be adjusted according to the sight field and the type of product. The HMD-1000-T is equipped with an aiming laser for ease of installation.

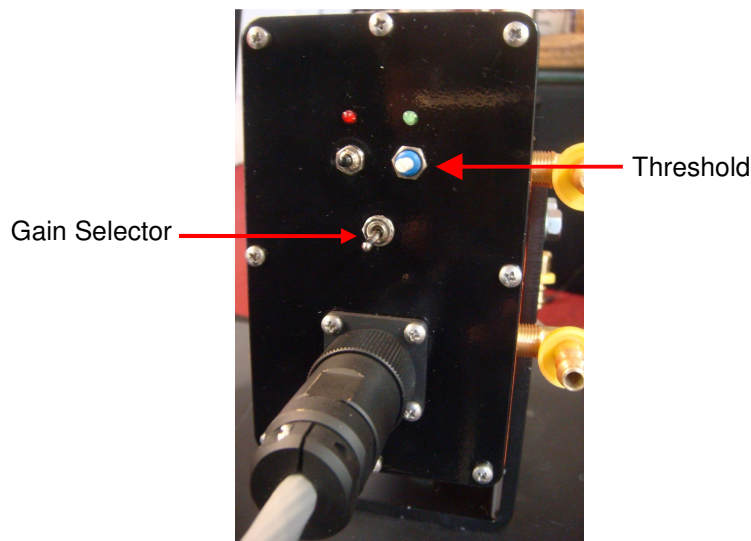


The Hot Metal Detector has two signal gains available, either “normal” or “high” gain.

The **Normal** setting, which is the default, should be used for most situations involving hot metal that is orange-red in color.

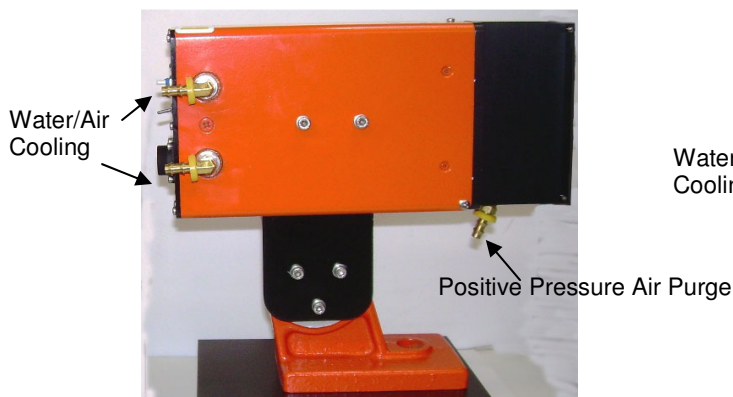
The **High** gain setting should be used for situations where the metal is colder, such as after a quench or when the metal has cooled down to a gray color.

The threshold potentiometer adjusts the energy point at which the sensor detects the hot metal. The threshold can be adjusted on the back of the sensor.

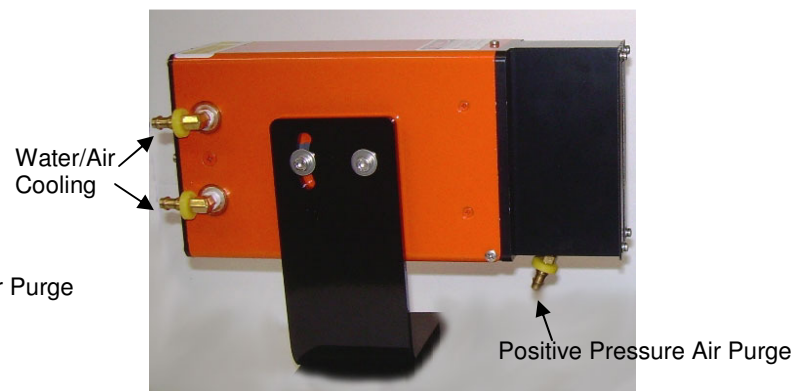


SPECIFICATIONS:

Response Time				Relay output: <7ms Solid-State output: 0.15ms
Static Output (non-isolated)				Response time of < 10 μ s
Laser				Red Laser diode, maximum wavelength 650nm Safety: Class II
Detection Distance				0.2m to 10m
Field of View				Standard: 2.30 degrees, 8cm @ 2m (3" @ 6.5") Narrow: 1.15 degrees, 4cm @ 2m (1.5" @ 6.5")
Target Temperature				From 225°C
Operating Voltage				100VAC - 240VAC or 24 VDC
Power Consumption				<5W
Outputs	Relay Output			AC 250V, 10A DC 30V, 10A
	Solid State Output	24V	High Level	Selectable high or low, maximum 100mA load current, Default
			Low Level	Selectable high or low, maximum 100mA load current
Detection Indicator				Green LED lighted when target detected
Test Function				Controlled by switch on the back panel or test input (connect to ground)
Sight View				Standard: 40mm at 1m Narrow: 20mm at 1m
Protection				With polarity protection when DC power is used, output with overload and short circuit protection
Installation Adjustment				Horizontal adjustment with no restriction, vertical adjustment from -20° to +20°
Operating Temperature				-25° to 70°C without cooling >70°C with cooling water Maximum: 125°
Water Cooling				Pressure: <0.3MPa
Housing				Aluminium housing With air purging and water-cooling connector
Total Weight:				HMD-1000-TL:3.175 kg / 7 lbs; HMD-1000-TD: 4.82 kg / 9 lbs

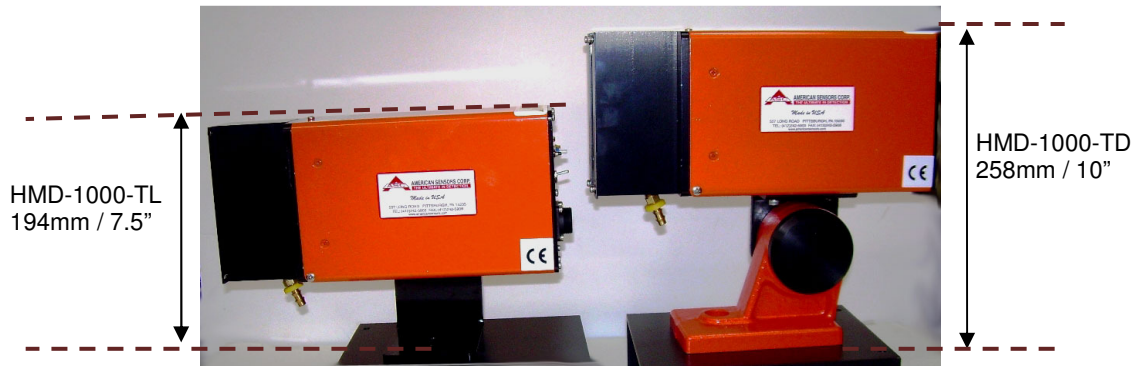
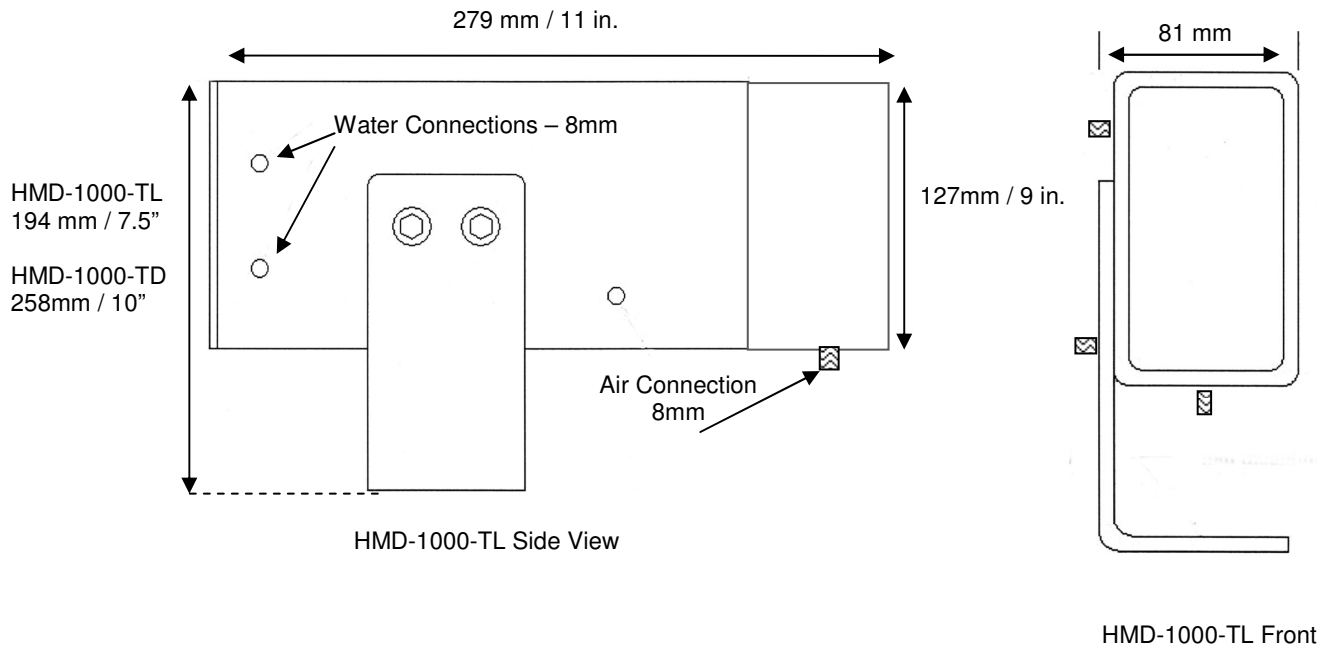


HMD-1000-TD



HMD-1000-TL

DIMENSIONS:



ORDERING INFORMATION:

Model	Foot Mount	Input Voltage	Cable Length *	Field of View
HMD-1000-	TL	AC 100-240 V AC	2 meters Standard HMD1-20015	Standard
	TD	DC 24 V DC	___ m Specify meter length	Narrow

* Our standard cable length is 2 meters (HMD1-20015) A longer cable length can be used so that the junction box can be installed away from the environment – dust, steam, water, etc., and avoid multiple points of connections. Please specify cable length when ordering.