

Hot Metal Detectors are used across the metal & steel industry in many different applications – detection, tracking and length control.

Due to their rugged design and construction, our HMDs are suitable for operation in harsh industrial environments – steam, water, dust, shock, vibration, oil – continuously for many years. Internal temperature compensation circuits render the HMD suitable for high ambient temperature conditions.\*

IR sensors in the HMD activate when the radiation received from the hot object exceeds certain value, whereupon the electrical switching circuit is activated.

\* For ambient temperature above 60°C, appropriate air or water cooling must be provided for long life and reliability of the HMD.



IR Temperature Switch

## Specifications

- Temperature Response Range : 550 ... 1,500°C
- Sensing Distance : See table
- Dispersion Angle : 7°
- Supply Voltage : 24 V DC
- LED Indication : Green (Power), Red (Detect)
- Output : 3-wire PNP NO, Relay NO + NC potential free
- Operating Temp : +20 ... +60°C (without cooling)

: +60 ... +70°C (air cooling recommended)

: +70 ... + 80°C (water cooling recommended)

Target	Temperature	Sensing Range
Wire Rod	550°C	1 m
Rail	550°C	2 m
Plate	550°C	2 m
Billet	550°C	2 m
Slab	550°C	2 m
Bloom	550°C	3 m
Bloom	1500°C	10 m

Cable Color	Function	Cable Color	Function
Red	+24 V DC	Yellow	COM
Black	GND	Blue	NO
Green	PNP NO	White	NC



## CHANDAN SENSOR CONTROLS.

Telephone : +91-98455-20781  
+91-94828-39492

Email : [info@chandansensor.co.in](mailto:info@chandansensor.co.in)  
Web : <https://hotmetaldetector.com/>

