

# MSE-HMD95 Remote Hot Metal Detector (HMD)

## General Information

### Remote Electronic Controller

**Housing:** Aluminum AL6, Oven baked black paint  
**Housing Rating:** IEC IP66, DIN, 89011  
**Weight w/o Cable:** 1.7 Kg  
**Connector:** IP65 Plug/Socket  
**Cable Length:** 1.5 M

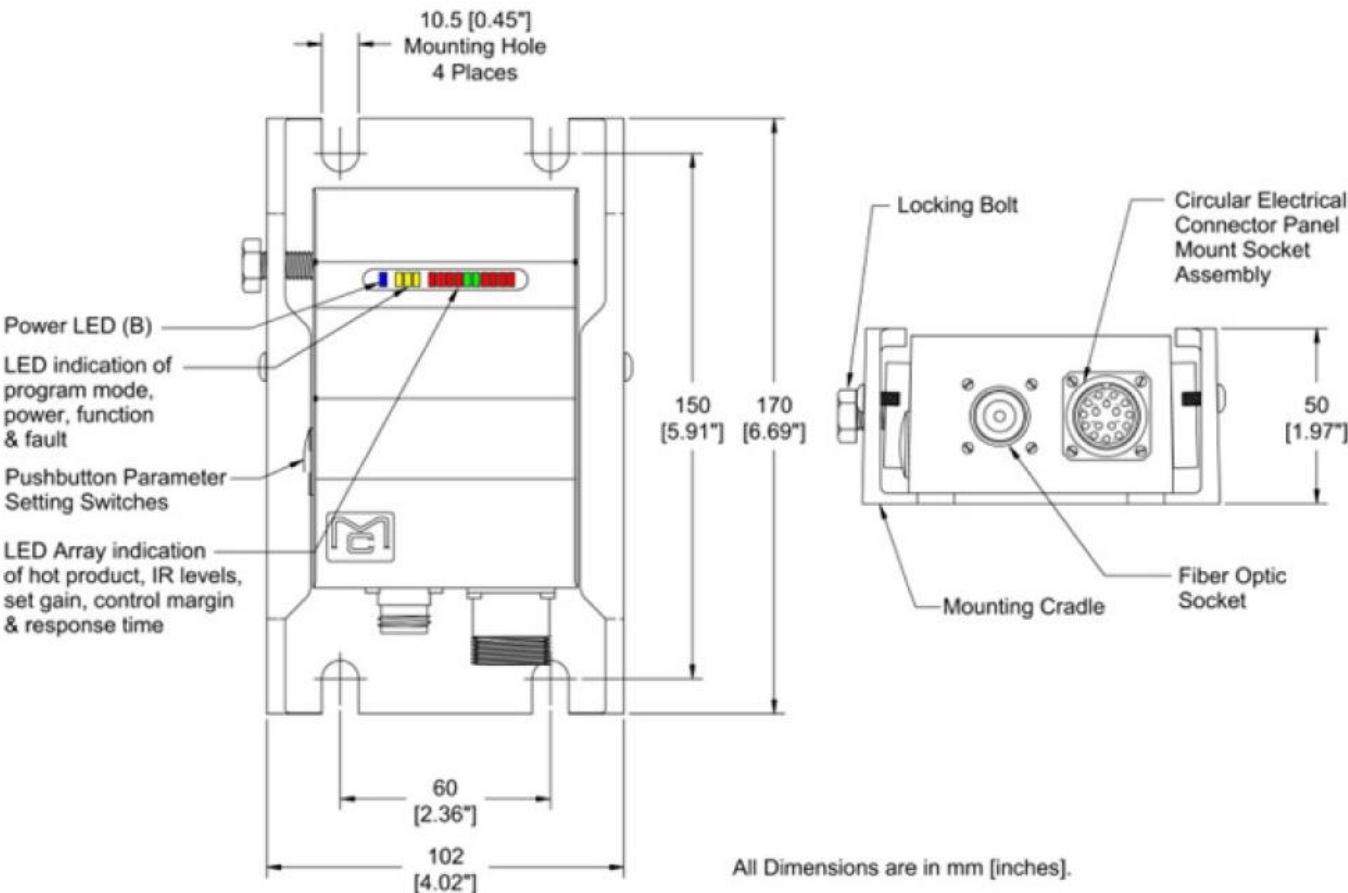
### Remote Lenses:

**Precision Rectangular Slit:** FOV: ½° x 5°, ½° x 15° & ½° x 25°; rated 160°C .  
**Stainless Rectangular Slit:** FOV: 2° x 15°; rated 400°C .  
**Stainless Tubular Spot:** FOV: 1°, 2°, 4° or 7°; rated 180°C or 400°C .  
**High Temperature Quartz Rod:** FOV: 1°; rated 1000°C.

### Fiber Optic Cables:

Flexible Armored Stainless Sheath available in lengths from 2 meters to 15 meters in 1 meter lengths; rated 400°C.

## Dimensions



## General Specifications

Sensing Element	InGaAs Photodiode	Supply Voltage	80 –240 VAC 50/60HZ and 24 VDC ± 10%
Power Indication:	Blue LED	Power Consumption	5 VA
Function Indication	Outer Yellow LEDs	Operating Temperature	-20°C to +55°C (-4°F to 131°F)
% I. R. Signal	Red/Green/Red LEDs	Storage Temperature	-25°C to +75°C (-13°F to 167°F)
Remote Self-Check	Middle Yellow LED	Output (#1)	Cradle Relay Output, SPNO, 240 VAC, 8A with 20 msec response time.
Min/Max I.R. Threshold settings	Down to 270°C (518°F) and up to 1000°C (1832°F) via programming switch	Output (#2)	Reed Relay Output, SPNO, 240VAC, 0.5A 2 msec response time.
Response Time:	1 msec. min to 250 msec max., via programming switch	Output (#3) and (#4)	PNP and NPN Transistor Outputs, N.O., 500 mA, 45 VDC, 2A peak (requires 24VDC supply)

## Smallest Detectable Product when utilizing a ½° x 25° Lens

The table below identifies the minimum % of vertical field of view required with hot steel at stated temperature for it to be repetitively detected.

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