



- Available FOV: 1° or 7° Spot Lens
- Brass Lens Housing rated IP66 with Quartz Glass Optic Lens with IR Filter.
- Robust Stainless Steel Optic Lens Holder with Air Purge
- Robust Stainless Steel Optic Head Holder provides 21 mm Height Adjustment, +/- 45° Vertical Tilt, and 360° Horizontal Rotation
- Utilizes Flexible Armored Fiber Optic Leads
- Ambient temperature continuous rating of 600°C (1112°F)

General Description

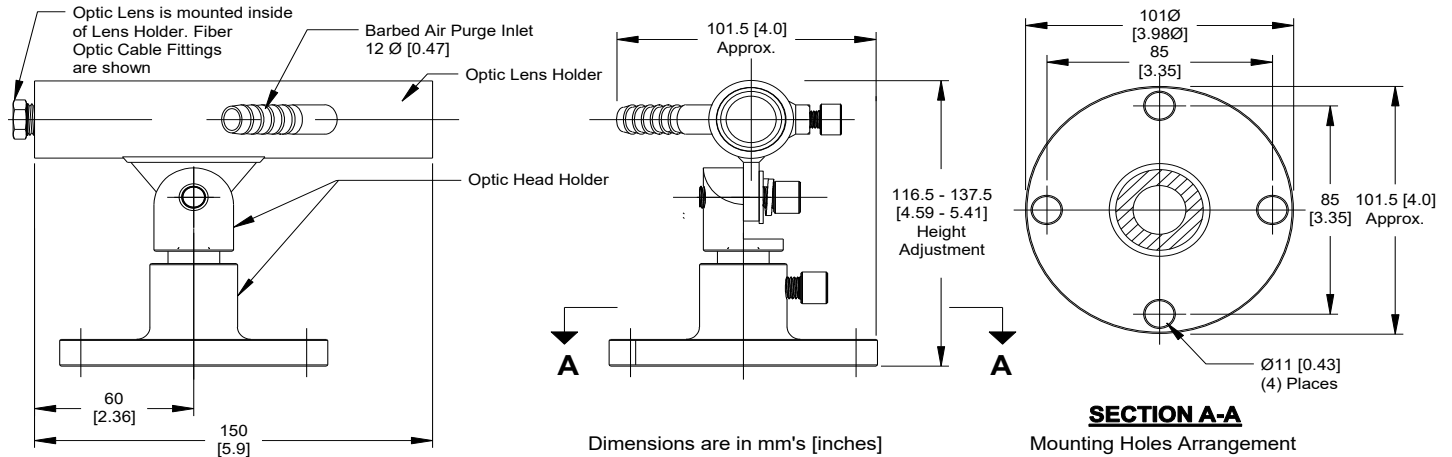
The MSE-OH.01.FMD95 and the MSE-OH.07.FMD95 Remote Fiber Optic Heads are specifically engineered for mounting in high ambient temperatures very close to the product line. It can be used in areas where with heavy steam or water is present. This lens is highly suited to Hot Bar & Rod Mills, Hot Rail Mills, Hot Strip Mills, Hot Plate Mills, Billet Casters, Slab Casters, Bloom Casters, Tube Mills, Forging Plants, Glass Bottle Plants, and for general tracking or detection of hot product.

Where high accuracy is required or the product deviates about the center line (i.e. Rod Mill) either the MSE-OH.03.X.FMD95-D 1/2° x 25°, 1/2° x 15° or the 1/2° x 5° FOV precision rectangular lens, should be utilized. Even product dramatically deviating about the center of field of view can be monitored with this slit field of view lens arrangement. The Rectangular Lens can be further vertically shuttered in the field to accommodate the application constraints.

The MSE-OH.01.FMD95 and the MSE-OH.07.FMD95 Remote Fiber Optic Heads comprise of a cylindrical Optic Spot Lens, an Optics Lens Holder with air purge, and a Optic Head Holder. The cylindrical spot optic lens is supplied in a brass cylindrical housing with brass fittings and with a tempered glass optics with an IR filter. The cylindrical spot lens is available in field of view of 1° or 7°. The robust Optic Lens Holder is of stainless steel construction and is provided with an integral air purge nozzle. The air purge provides positive air pressure in front of the lens to keep it clean and to blow away steam that might be in front of the lens. The robust Optic Head Holder is of stainless steel construction and provides a 20 mm Height Adjustment, ±65° Vertical Tilt, and 360° Horizontal Rotation. All components of the Remote Fiber Optic Head including the Optic Spot Lens are rated for continuous operation at 600°C (1112°F). All Remote Fiber Optic Heads with spot lenses use the same Fiber Optic Lens which is available in lengths of 3, 5, and 10 meters.

The MSE-OH.01.FMD95 and the MSE-OH.07.FMD95 Remote Fiber Optic Heads are used in conjunction with the MSE-FMD95 Digital Fiber Hot Metal Detectors. These detectors are activated by the infrared radiating from the hot metal or product. This infrared energy is concentrated via the lens system and transmitted via a multi-strand fiber optic lead onto a photodiode in the detector that activates a switched output once this IR energy exceeds a preset level.

Dimensions



Lens FOV and Additional Lens Information

Fiber Optic Head Type	MSE-OH.01.FMD95	MSE-OH.07.FMD95
Field of View (FOV)	1°	7°
Scanned Area at 1 meter (39.37 in)	Ø17.5 mm (Ø0.69 in)	Ø122 mm (Ø4.4 in)
Scanned Area at 2.5 meter (8.2 ft)	Ø44 mm (Ø1.7 in)	Ø306 mm (Ø12.0 in)
Scanned Area at 5 meter (16.4 ft)	Ø87 mm (Ø3.4 in)	Ø612 mm (Ø28.9 in)
Scanned Area at 7.5 meter (24.6 ft)	Ø131 mm (Ø5.2 in)	Ø917 mm (Ø36.1 in)

General Specifications

Lens Housing & Fittings:	Material: Brass
Lens Optics:	Material: Quartz Glass with IR Filter
Lens Housing Rating:	IEC IP66, DIN, 89011, NEMA 3, 4, 12
Lens Holder & Hardware:	Material: Stainless Steel
Optic Head Holder:	Material: Stainless Steel including hardware
Weight:	1.65 Kg (3.8 LBS)
Temperature Rating:	-20°C to +600°C (-4°F to 1112°F)

Part Number Specifications

Fiber Optic Head Type:	MSE-OH.XX.FMD95
Spot Lens F.O.V.:	XX = 01 = 1° F.O.V. XX = 07 = 7° F.O.V. Lenses with other F.O.V. are available.
Example:	MSE-OH.01.FMD95 Optic Head with 1° F.O.V. Lens, Lens Holder with Air Purge, and Optic Head Holder

Air & Water Specifications

Air Pressure:	Air Purge: < 0.3 bar for normal conditions. 1 to 3 bar for very difficult conditions
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These OH.XX.FMD95 Fiber Optic Heads are manufactured by Moduloc System Engineering Ltd. Located Yantai ETDZ Shandong, China P.R. and was established in 2007. These Fiber Optic Heads can be used with older Moduloc MD9100 and MD95100 Hot Metal Detectors and can be used with Moduloc LG-XX-CB and LGH-XX-CB Fiber Optic Cables.

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MSE

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We reserve the right to alter specifications without prior notice. Specifications without tolerances are typical values.

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