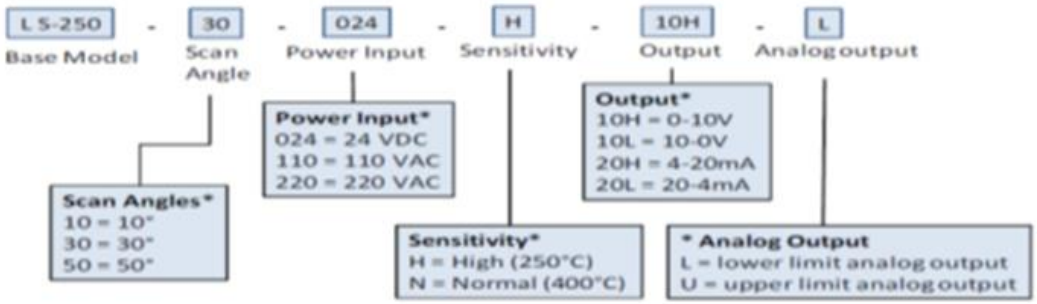
Loop Scanner

The Logika Technologies non-contact Loop Scanner 250 series (LS-250), is designed to detect the loop position of hot steel, aluminum and other metal products at temperatures as low as 250°C (480°F). It is especially designed for horizontal or vertical loop control of wire rod and bar during rolling process in steel mill. The LS-250 includes a rugged IP66 enclosure protecting the state-of the- art electronics and withstanding the harsh conditions of steel mills and other process plants. Advanced detection technology allows the sensor to be installed farther from the hot metal target, protecting the electronics and extending the life of the sensor without affecting accuracy.



Operating Temp	-10°C to 50°C (14°F to 122°F). With cooling water: +110°C (230°F)
Spectral Response	1 to 3 µm, peak wavelength of 2.2 µm
Detector	PbS sensor
Response Time	Relay output: Make 7 ms and Break 4 ms, Analog output 2 to 4 ms
Target Temperature Range	250°C (482°F) minimum on H (high sensitivity) model 400°C (752°F) minimum on N (normal sensitivity) model
Target Object	Opaque object larger than 5 mm (0.2”)
Power Input	24 VDC, 110 VAC or 220 VAC
Housing	Cast aluminum enclosure rated IP66, includes hinged protective shroud with air purge connection and cooling water connections
Size	415 mm L x 106 mm W x 340 mm H, (16.3” L x 4.2” W x 13.4” H), 10.5 kg (23 lbs)

Features

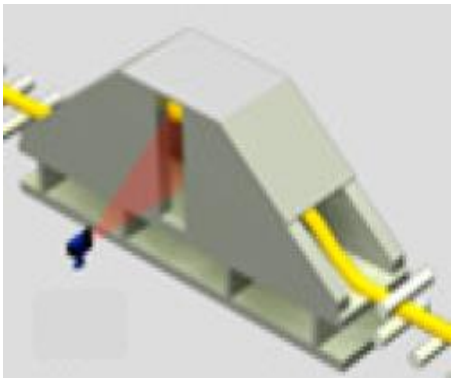
- Designed for harsh environment with IP66 enclosure
- Scanning angles - 10°, 30° and 50°
- Sensitive Pbs photocell
- Sensitivity adjustability at the back of sensor
- Standard digital and analog outputs
- Self-testing with digital output alarm

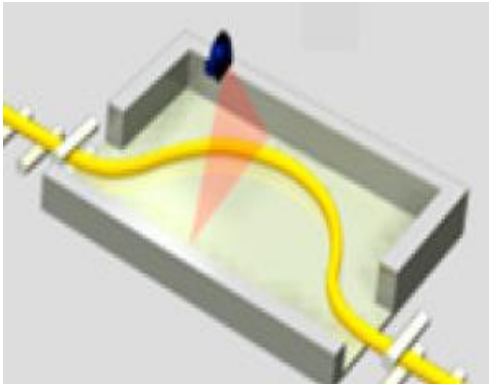
Applications

- Loop position – control horizontal and vertical loop of hot wire rod or bar
- Leading edge detection – hot slab

Additional Options

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





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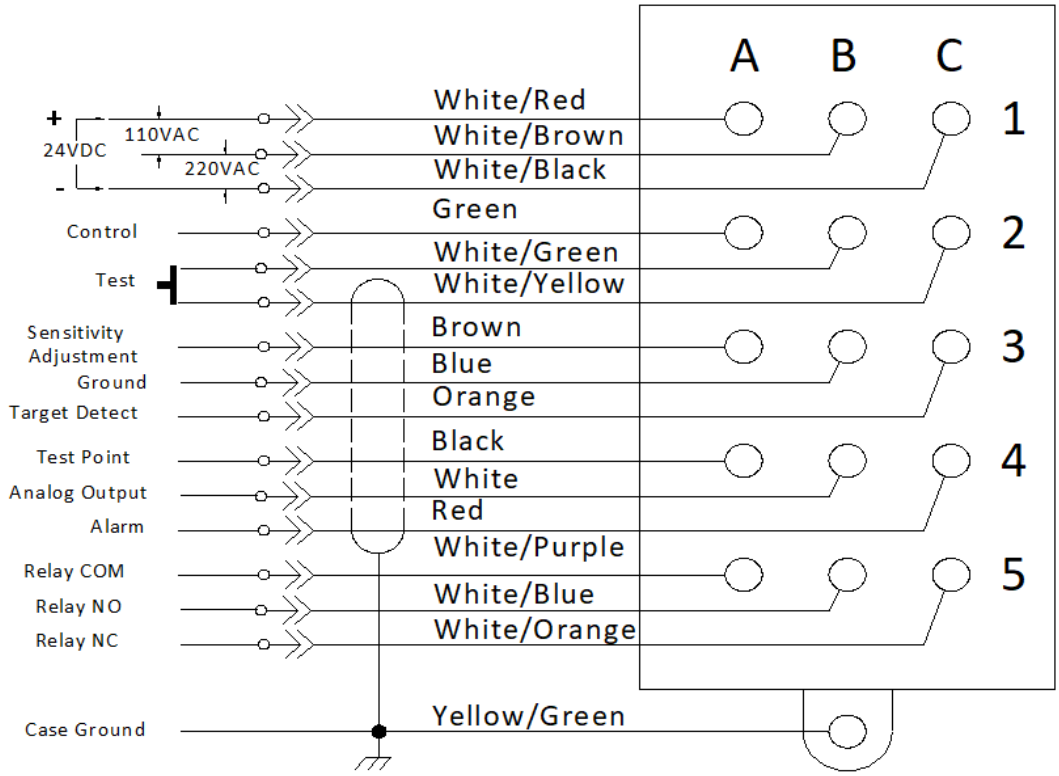
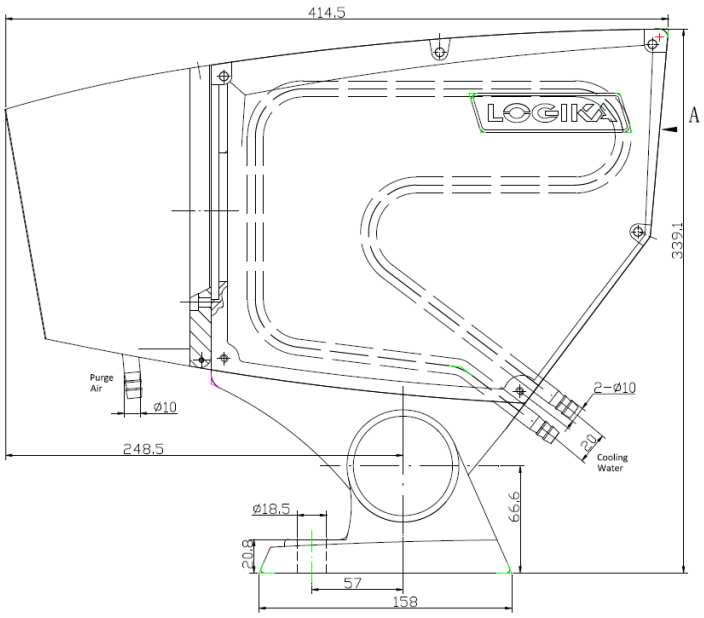
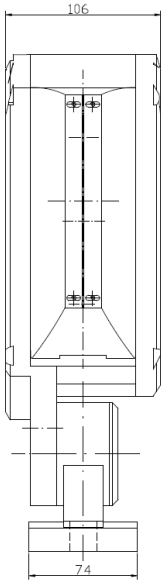
Cable Terminal Wiring Description.





Side View



Front view

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