

OMNIR



FINNA
SENSORS

PRODUCT OVERVIEW

OMNIR is the future of near infrared sensing technology. Coming from OMNI, meaning “all” and NIR, meaning “near infrared,” we have created an intelligent all-sensing solution that exceeds expectations. It not only delivers accurate data instantaneously and non-destructively, it also monitors its own health to perform its best during your crucial processing moments. By selectively harnessing light, to ensure increased uptime and greater profitability for your operation, the future of your manufacturing operation starts now.



KEY FEATURES

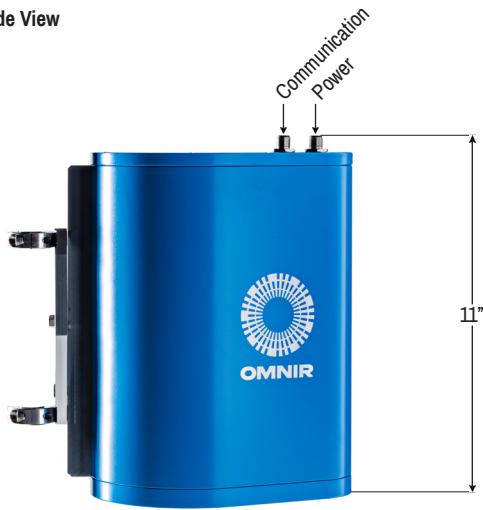
- Internet of Things (IoT): System continuously reports on 19 internal points to monitor sensor health
- Rugged Modular Design: Isolates the most sensitive electronics away from the manufacturing line
- Cloud-Based Updates: Receive the latest software enhancements automatically
- Patented method of filtering the light after it hits the product, rather than before, for greater accuracy
- Data Reports & Analytics: Detailed reports that show live data, SPC charts, shift results and historical data
- Multi-sensor network simplifies startup and integrates data for better decision-making

BENEFITS

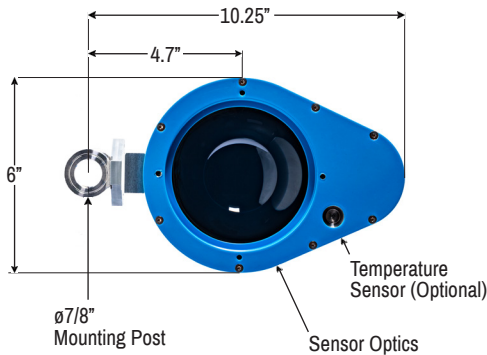
- Continuous, accurate and non-destructive measurement for:
 - Regulation and industry-standard compliance
 - Higher profitability
 - Improved product quality & waste reduction
- Finna Sensors' Persistent Innovative Development™ approach always keeps customers on the cutting edge
- IoT continuous monitoring of sensor health increases uptime
- Versatile Placement: Built to withstand harsh conditions and can be used on screw conveyors, belts, chutes, silos or even lab environments

DIMENSIONS: OMNIR

Side View

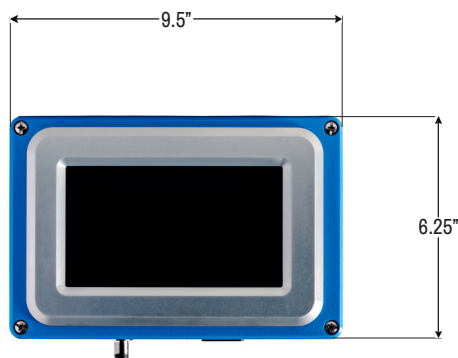


Bottom View



DIMENSIONS: OPERATOR DISPLAY

Front View



Bottom View



SPECIFICATIONS

SENSOR

Measurements & Accuracy

Moisture Range	Min: 0.1%, Max: 95% ($\pm 0.1\%$)
Coat Weight	Min: 0.1 gr./m, Max: 200 gr./m ($\pm 0.1\%$ gr./m)

Ambient Operating Temperature -20° - 80°C (- 4° - 176°F)

Measurement Area 25 mm (1 in.)

Product Distance 8-16" (20.3 - 40.6 cm)

Sample Rate 60 calculations/second

Power 90-260 VAC, 47-63 Hz

Outputs 2x 4-20 mA, Optional Discrete I/O

Enclosure/Weight Aluminum/ 12 lbs. (5.4 kg)

Key Certifications CE, IP69K

DATABASE & SOFTWARE INTERFACES

Optional Bus Interfaces Ethernet, Ethernet/IP, Profinet, Profibus-DP, Modbus-TCP/IP, Modbus RTU, RS485, DeviceNet

Software Windows-based application, Requires Win7 or newer

OPERATOR DISPLAY (OPTIONAL)

Display 7-inch color capacitive touchscreen

Power 24VDC

Cable Ethernet

Enclosure/Weight Aluminum/ 4 lbs. (1.8 kg)

Ambient Operating Temperature 0 to 50°C (32 - 122°F)

ACCESSORIES (OPTIONAL)

Temperature Sensor Measures material in 0 - 400°C (32 - 752°F) range

Opto-Port Attachment This stainless steel attachment allows the sensor to adapt to a variety of situations such as screw conveyors and free fall conveyors. Can be ordered with an air blast system for free falling samples.

Dust Shield Ensures the sensor will provide consistent and accurate results by preventing the build-up of dust and grime on the lens

OPTO 22 Discrete I/O Output for alarms (LOP, HH, H, L, LL)

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