

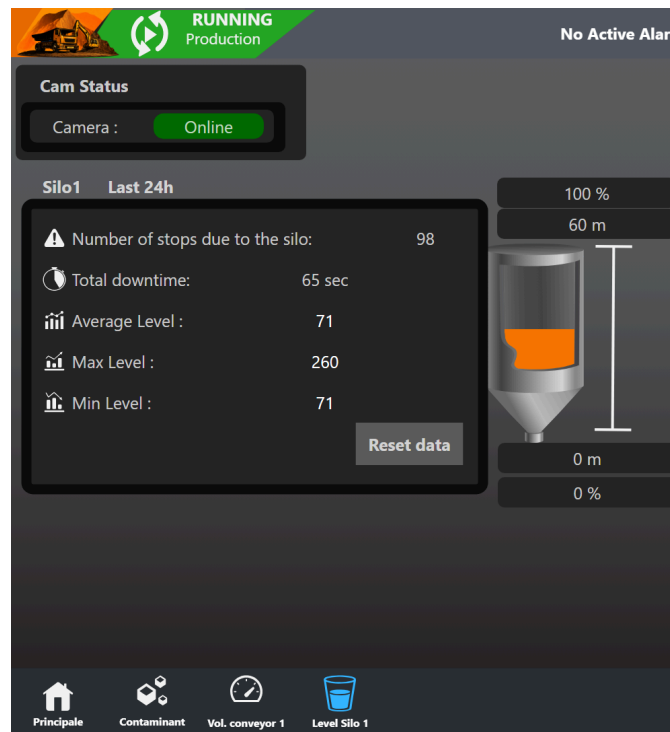
# MOD-CN-MSA-1 MONITORING MATERIAL LEVELS MODULE IN SILOS AND OTHER CONTAINERS



Pre-programmed and proven module designed for continuous monitoring of material levels in silos and other storage areas, ensuring accurate and reliable measurement.

## Benefits & gains

- Continuous material level measurement to optimize operations
- Real-time detection of abnormal conditions
- Recording of measured volumes for performance analysis
- Reduced need for human supervision
- Improved system usage and occupancy



## Technical specifications

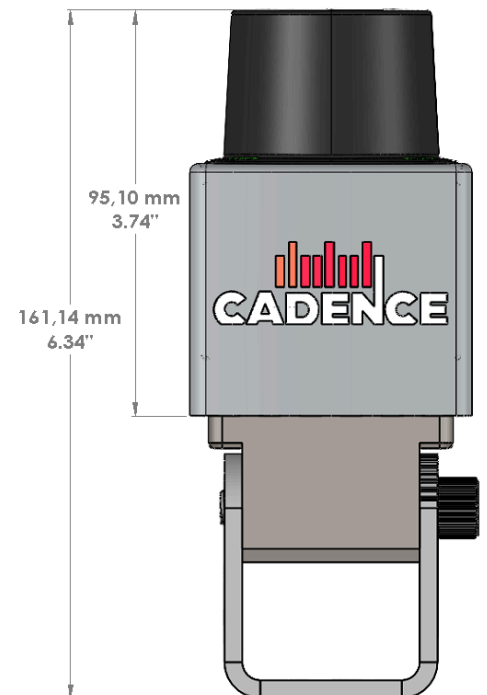
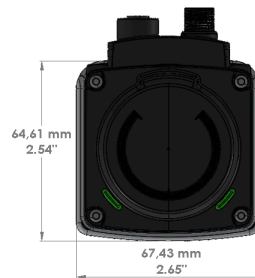
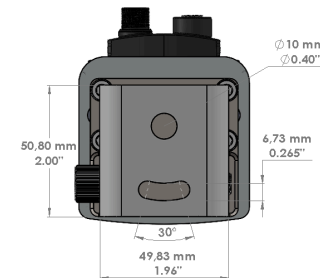
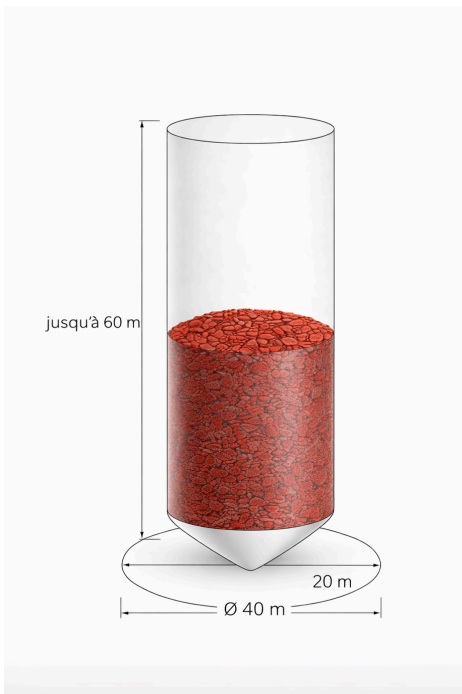
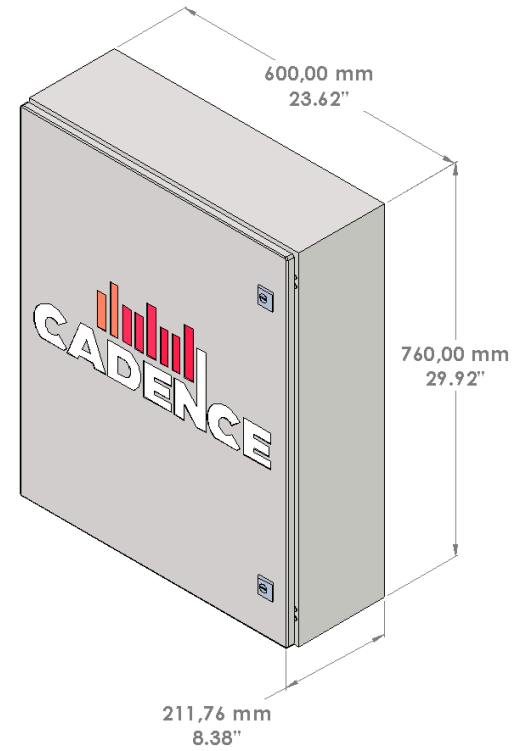
- Web-based HMI interface with secure remote access
- Multiple industrial communication protocols (including Ethernet/IP)
- Programmable inputs/outputs (I/O)
- Multi-camera module
- IP67 industrial panel, assembled and CSA certified

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# MONITORING MATERIAL LEVELS - SILOS AND OTHER CONTAINERS

FEATURES	
Variant	Outdoor and indoor application
Technology	2D Lidar
Laser class	1
Light source	Infrared (905 nm)
PERFORMANCE	
Detection distance	Up to 60 m, 90% reflectivity (contact the manufacturer for more information on available distances)
Accuracy	±20 mm
Acquisition frequency	Scan every 0.67 s
Angular resolution	0.34°
INTERFACE	
Ethernet speed	100 Mbit/s
Visualization	WEB HMI with secure password access via IP
Inputs	3 configurable
Communication protocol	Profinet, Modbus TCP, OPC UA, TCP/IP, MQTT, HTTP, UDP
ENVIRONMENT	
Operating temperature	-33 to 50 °C
Storage temperature	-40 to 70 °C
DIMENSIONS	
Panel (BJD4)	600 mm (L) × 760 mm (H) × 211.76 mm (D)
Camera enclosure	64.61 mm (L) × 64.61 mm (H) × 95.10 mm
Enclosure protection rating (IP)	IP67
Panel power supply	120 V AC
Current (A)	15 A



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