



SENTINEL AXS™ is a passive access state monitoring solution that delivers verified, real-time certainty for critical access points across physical infrastructure. Using rugged, plug-and-play sensors, AXS continuously confirms whether enclosures such as lockboxes, vaults, manholes, cabinets, and handholes are open or secure—providing true status awareness rather than event-only alerts. The system operates over existing single-mode fiber with no special cables or proprietary fiber required, and truly universal, interchangeable sensors can be placed anywhere along the fiber run and automatically enroll—making installation, repairs, replacements, or expansions fast and cost-effective.

Fully integrated with the INSIGHT™ platform, SENTINEL AXS™ provides centralized monitoring, real-time alerts, automated event logging, compliance-ready audit trails, and seamless integration with existing security devices and VMS platforms. Its scalable multi-port architecture and passive, power-free operation make AXS a reliable, lower-cost solution for remote, unmanned, and high-security environments.

SENTINEL AXS Technical Specifications - Interrogator

OPTICAL SPECIFICATIONS

Optical Channels	1,2, or 4
Distance per Port	Up to 20km
Sensing Fiber Type:	Standard OS2 Single-mode fiber
Optical Connection	SC/APC

SENSOR MEASUREMENT

Sensors per Channel	Up to 20, distance-dependent
Min Optical Distance between Sensors	20m fiber length

ELECTRICAL

Power Input	100/240V, 60/50Hz IEC
Operating Power (Typical)	19 Watts
Maximum Power (Maximum)	21 Watts

ENVIRONMENTAL

Operating Temperature	-10°C – 35°C
Storage Temperature	-40°C – 80°C
Operating Humidity (Max)	0-95% Non-Condensing

PHYSICAL

Installation	19" Rack Mount (1 RU)
Dimensions (in)	1.75 x 16.5 x 16.5
Dimensions (mm)	44 x 420 x 420
Weight (lbs)	15.4
Weight (kg)	7

ALARM MANAGEMENT

Application Integration	INSIGHT™/INTERLINK™
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REMOTE MANAGEMENT

Network	SFP
Protocols	

INDUSTRY CERTIFICATIONS

Class 1 laser product	IEC 60825-1: 2014
	EN 60825-1: 2014
	FDA 21CFR1040.10+Laser Notice no.50
CE Rated and Certified	
Safety Integrity Level (SIL) 2	IEC 62368

For specifications on all other products and the Warranty and Support Program, please refer to our website at www.networkintegritysystems.com



SENTINEL AXS Technical Specifications - Lockbox Sensor

OPTICAL SPECIFICATIONS

Optical Connection	LC/APC
Minimum Fiber Distance between Sensors	20m

SENSOR MEASUREMENT

Sensors per Channel	Up to 20, distance-dependent
Min Optical Distance between Sensors	20m fiber length
Actuator Activation Minimum (in)	.6
Actuator Activation Minimum (mm)	15



ENVIRONMENTAL

Location	Indoor Use
Operating Temperature	-10°C – 40°C
Storage Temperature	-40°C – 70°C
Operating Humidity (Max)	0-95% Non-Condensing

PHYSICAL

Installation	Adjustable Mounting Plate included
Dimensions (in)	4.33 x 4.56 x 2.177
Dimensions (mm)	110 x 116 x 55
Weight (oz)	4
Weight (g)	101

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SENTINEL AXS Technical Specifications - Manhole Sensor

OPTICAL SPECIFICATIONS

Optical Connection	Fusion Splice
Minimum Fiber Distance between Sensors	20m

SENSOR MEASUREMENT

Sensors per Channel	Up to 20, distance-dependent
Min Optical Distance between Sensors	20m fiber length
Actuator Activation Minimum (in)	.6
Actuator Activation Minimum (mm)	15



ENVIRONMENTAL

Location	Indoor/Outdoor Use
Ingress Protection Rating	IP68
Operating Temperature	-10°C – 40°C
Storage Temperature	-40°C – 70°C
Operating Humidity (Max)	0-95% Non-Condensing

PHYSICAL

Installation	Adjustable Mounting Plate included
Dimensions (in)	2.175 x 3.25 x 9.365
Dimensions (mm)	55 x 83 x 238
Weight (oz)	12
Weight (g)	326

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