

Cisco Meraki MT20-HW

Cloud-Managed Indoor Open/Close Door & Entry Sensor

DATASHEET

Product Overview: The Cisco Meraki MT20-HW is a compact, cloud-managed indoor open/close sensor that monitors physical access across doors, gates, server racks, and equipment cabinets. Using magnetic field position detection, the MT20 provides real-time visibility into intrusions, access trends, and doors left ajar. It seamlessly connects via Bluetooth Low Energy (BLE 4.2) to nearby Cisco Meraki MR access points or MV smart cameras as gateways, eliminating the need for dedicated hardware servers.

Magnetic

HALL EFFECT SENSING

Event-Driven

INSTANT REAL-TIME ALERT

Up to 5 Yrs

BATTERY LIFE (2× AA)

4,000 Pts

LOCAL OFFLINE CACHE

OPEN/CLOSE SENSOR SPECIFICATIONS

Sensing Component	Specification Details
Sensing Mechanism	Magnetic Hall Effect Field Sensor (detects magnet proximity and separation)
Detection Gap (Threshold)	Triggers OPEN state when magnet is moved > 20 mm (0.78") away from main sensor body
Event Reporting Speed	Instant event-driven transmission upon status change (Open/Close transition)
Periodic Status Ping	Heartbeat ping reported to gateway every 20 minutes during stationary state
Tamper Security Detection	Integrated tamper detection sensor reports unauthorized device removal or cover removal

WIRELESS & GATEWAY ARCHITECTURE

Wireless Technology	Bluetooth Low Energy (BLE 4.2) Operating Frequency: 2.400–2.4835 GHz
Gateway Compatibility	Automatic pairing with Wi-Fi 6 MR Access Points and 2nd Gen MV Smart Cameras
Onboard Data Buffer	4,000 event points logged locally during network or gateway connectivity interruptions
Hardware Root of Trust	Cisco Trust Anchor module (TAM) securely authenticates the device and encrypts all BLE data

PHYSICAL & POWER CHARACTERISTICS

Main Device Dimensions	81.2 mm × 39.7 mm × 19.5 mm (3.20" × 1.56" × 0.77") Weight: 29 g (0.06 lbs)
Magnet Cover Dimensions	59.5 mm × 12.0 mm × 13.35 mm (2.34" × 0.47" × 0.53") Weight: 10 g (0.02 lbs)
Power Options	2× User-replaceable AA Alkaline batteries (included) OR optional USB-C power input (5V, 0.1A)

KEY SOFTWARE & CLOUD TELEMETRY CAPABILITIES

Instant Intrusion & Access Alerts

Configurable alert rules trigger instant SMS, email, mobile push, or webhook notifications whenever a door is opened or left ajar beyond a set duration.

Instant SMS Alerts

Door Ajar Rules

Camera Video Correlation

Automatically correlates door open events with nearby Meraki MV smart camera footage to provide instant visual verification of entry events in dashboard.

MV Camera Sync

Visual Context

Gateway-Free BLE Mesh

Communicates directly with existing Cisco Meraki MR access points and MV cameras, eliminating extra gateway costs and simplifying multi-site rollouts.

Zero Extra Gateways

BLE 4.2 Mesh

Off-Grid Event Buffering

Stores up to 4,000 open/close events locally during wireless disruption, automatically syncing data back to the Meraki Cloud once connectivity re-establishes.

4,000 Log Buffer

Auto Re-Sync

SECURITY & WEBHOOK API AUTOMATION

Category	Features & Integration Standards
Device Security & Encryption	Cisco Trust Anchor module (TAM) with Secure Unique Device Identifier (SUDI) and encrypted BLE Long-Term Key (LTK) exchange
Tamper Reporting	Real-time tamper alert sent to dashboard if sensor body is dislodged from mounting bracket
REST APIs & Webhooks	Webhooks and Dashboard REST APIs for direct integration with security platforms (e.g., ServiceNow, PagerDuty, Webex, IFTTT)
Certifications	FCC, CE, IC, RCM, RoHS compliant, UL 2905 Environmental Sensor Certification

ORDERING INFORMATION & ACCESSORIES

Part Number	Description
MT20-HW	Cisco Meraki MT20 Cloud-Managed Indoor Open/Close Door Sensor
LIC-MT-1YR	Cisco Meraki MT Enterprise License and Support (1 Year)
LIC-MT-3YR	Cisco Meraki MT Enterprise License and Support (3 Years)
MA-PWR-USB-US	Meraki AC to USB-C External Power Adapter (US Plug)
Package Contents	MT20 sensor unit, magnet assembly, 2× AA batteries, 3M mounting tape, screws, drywall anchors

Warranty & Cloud Support: The MT20-HW is covered by Cisco Meraki's 3-year hardware warranty featuring Advanced Next Business Day (NBD) replacement, supported by 24x7 enterprise phone support and automated cloud software updates provided with an active Meraki MT licensing subscription.