

APEX Reader

Enhanced. Sleek. Built to Last.



The Wavelynx APEX Reader is a next-generation access control RFID reader product suite that is built for enhanced durability, efficiency, and flexibility.

Conceived for white-labeling and featuring a modernized design centered around augmenting your brand, the APEX reader platform leverages a metal cast mounting plate to offer maximum installation robustness. Four new form factors now also include a Mullion Keypad for greater versatility.

Its advanced hardware upgrades, much reduced power consumption, expanded credential compatibility and security, and increased IP65+ outdoor rating. Key advancements such as an upgraded NFC chipset, increased tamper detection, and support for modern and legacy credentials future-proof the design.

The communication protocol OSDP V2.2 verified and the APEX OSDP Autodetect feature allow for more convenient, secure, and cost effective installation upgrades. This combination guarantees the seamless upgrade from Wiegand to OSDP over the existing Wiegand wire.

The APEX readers also feature a terminal block to make the installation more broadly standardized, and still offer the traditional pigtail as an optional accessory.

Capabilities:

- Credential support for NFC, Bluetooth 5.3, and 125 kHz Prox.
- Broad power range (5-24VDC)
- Durable IP65+ design with sleek form factor options, including Mullion Keypad and Single Gang.
- Advanced security with EAL6+ Secure Element and tamper detection via accelerometer.
- Credential Compatibility: Fully interoperable with Ethos Readers.

TECHNICAL SPECIFICATIONS

Four Form Factors

(part number / dimensions)

Mullion (AX-10)

- (133.4 L x 46mm W x 18.5mm T)

Mullion with keypad (AX-15)

- (133.4mm L x 46mm W x 23.5mm T)

Single Gang (AX-20)

- (133.4mm L x 83.6mm W x 18.5mm T)

Single Gang with Keypad (AX-25)

- (133.4mm L x 83.6mm W x 23.5mm T)

Colors

Black

Current

50mA at 12 VDC

Voltage

5–24 VDC

Temp Range

–35 to 66 C and EN –40 to 70C and 95% humidity

Read Range

2"

Security Level

EAL6+ Secure Element

Country of Origin

Designed and Assembled in Colorado USA

Warranty

Lifetime on non-keypad models, 3-year on keypad models

Regulatory Compliance

FCC and IC Certified
CE DoC with EN 62368-1:2014 and related EMC/Spectrum tests
UL294
OSDP Verified to V2.2
IP65 or better
Plastics: UL94-V0, UL746C-F1 for UV/water resistance

FEATURES

RF Technology

13.56 MHz (NFC), 125 kHz (Prox), Bluetooth BLE 5.3

Autodetect

Automatically detects if the device is installed into a Wiegand or OSDP infrastructure.

Remote Firmware Upgrades

Supported for radio enable/disable and control sequencing

Credential Support

All Ethos-supported credentials, including NFC, Prox, and Bluetooth

LEDs

Red/Green/Blue LED light bar at the top (Visual Feedback)

Tamper

Accelerometer-based tamper detection