



LNL-XF

The Lenel OpenCard Reader series includes the most flexible readers in the industry. A single reader supports all applicable ISO standards (14443 and 15693), including the new U.S. Government PIV standard. All Lenel OpenCard Readers contain both 125 kHz proximity and 13.56 MHz contactless smart card support in one unit. Lenel OpenCard Readers provide compatibility with Lenel prox, HID® proximity, GE/CASI ProxLite®, XceedID proximity, AWID proximity and most 13.56 MHz technologies (see chart on back). By offering 125 kHz and 13.56 MHz technology in one reader, Lenel protects customers from obsolescence in the transition from proximity technology to contactless smart card technology. Even if customers want to continue using proximity technology today, the new Lenel OpenCard Readers offer economical migration to the latest in smart card technology while accommodating their budget or timeline.

Product Applications

The mullion reader is perfect for narrow-rail mullion installations. It can be used as a sleek and unobtrusive unit, as well as for standard wall-mounted reader applications.

The mid-range reader is ideal for mounting on single gang US electrical boxes. The read range provided by this attractive package makes it the standard of choice for most wall-mounted installations.

The mid-range keypad reader is ideal for higher security applications where two-factor (card and/or PIN) authentication is desired. This reader may be mounted on a standard U.S. single gang electrical box, or used in any typical wall-mounted application.

Features and Functionality

- Compatibility: compatible with industry standard 125 kHz proximity and 13.56 MHz contactless technologies
- Easy migration
- Optional GSA approved PIV support
- Modular design: allows easy removal or addition of keypad in the field
- Read range: up to 8 in. (203 mm), depending on card technology
- Integrated tamper detection
- Tri-state LED (red, green, amber): Visual indicator and audio feedback representing status and activity information
- Accommodates interior, exterior, metal and non-metal installation environments
- Lifetime warranty against defective workmanship and materials



Supported Standards and Technologies

125 kHz Proximity	LenelProx GE CASI ProxLite® HID® Proximity XceedID™ AWID® Proximity	ISO 14443 13.56 MHz Proximity	Lenel OpenCard Format Sector XceedID Secure MIFARE DESFire® Serial Number MIFARE® Serial Number U.S. Government PIV Data Model
ISO 15693 13.56 MHz Vicinity	XceedID ISO-X™ Secure Sector Infineon my-d® Secure Sector HID iCLASS® Serial Number Infineon my-d® Serial Number Inside Contactless PicoTag® Serial No. ST Microelectronics® Serial Number Texas Instruments Tag-It® Serial No.		

Reader Options

Standard Readers	PIV Readers	Description
LNL-XF1100D	LNL-XF1100D-PIV	(Standard Black) Mullion mount; Wiegand output
LNL-XF2100D	LNL-XF2100D-PIV	(Standard Black) 1-Gang US mount; Wiegand output
LNL-XF2110D	LNL-XF2110D-PIV	(Standard Black) 1-Gang US mount; Keypad; Wiegand output

Specifications

Frequency	125 kHz and 13.56 MHz	Max. Read Range
Standards	ISO 15693 and ISO 14443	125 kHz:
Operating Temperature	-31° to 151°F (-35° to 67°C)	LNL-XF1100D, up to 5" (127 mm)
Physical Dimensions (HWD)		LNL-XF21XXD, up to 8" (203 mm)
LNL-XF1100D:	5.85" x 1.72" x 1.14" (149 cm x 43 cm x 29 mm)	13.56 MHz:
LNL-XF21XXD:	5.85" x 4.5" x 1.45" (149 cm x 114 cm x 37 mm)	ISO 15693
Weight		• LNL-XF1100D, up to 4.5" (114 mm)
LNL-XF1100D:	0.6 lbs. (.27 kg)	• LNL-XF21XXD, up to 6" (152 mm)
LNL-XF21XXD:	1.05 lbs. (.48 kg)	ISO 14443 MIFARE Standard
Voltage Range	8 to 16 VDC	• LNL-XF1100D, up to 2" (51 mm)
Max. Current Requirement		• LNL-XF21XXD, up to 3" (76 mm)
LNL-XF1100D:	Avg. 95 mA DC, Peak 254 mA DC	ISO 14443 MIFARE DESFire
LNL-XF2100D:	Avg. 95 mA DC, Peak 218 mA DC	• LNL-XF1100D, up to 1.5" (38 mm)
LNL-XF2110D:	Avg. 120 mA DC, Peak 215 mA DC	• LNL-XF21XXD, up to 2.5" (64 mm)
Material	PBT Polymer	ISO 14443 PIV
System Interface	Wiegand (Standard)	• LNL-XF1100D, up to 1" (25 mm)
Cable Specification	22AWG 12 Conductor Shielded	• LNL-XF21XXD, up to 2" (51 mm)
Cabling Distance	Wiegand Output: 500 ft. (152m)	*Maximum read range depends on credential type/form factor and installation conditions
Certifications	FCC Certification Canadian FCC Certification UL 294-Listed, CE-Marked R&TTE Directive (15 EU Countries) GSA Approved for FIPS-201 (PIV models only)	