



Delta6.4

Globally Accepted - ISO 14443 Type A & B compliant

Multi-Technology - integrates both 13.56-MHz contactless smartcard and 125-kHz proximity RFID technologies into a single unit

Secure Contactless Communication - smartcard encryption secures contactless transmissions

Versatile Options - customize reader to fulfill different applications, security needs and system specifications

Farpointe's Delta technology is based on the world popular Mifare platform to offer a globally accepted, secure and versatile access control solution. Delta readers support the most popular smartcard and proximity card technologies for simple system integration and the freedom to target different applications with the most convenient card technology. To ensure the integrity of RF data transactions, data communication between Delta cards and Delta readers is encrypted using a powerful key; furthermore, readers and credentials challenge each others' keys during the validation process. Showcasing Delta's versatility, the readers offer a wide range of adjustable settings to satisfy each customer's individual needs, application requirements, and system specifications.

Advanced Technology

- 13.56-MHz: Supports Delta Contactless Smartcards, Mifare 1K & 4K, Ultralight (CSN only), DESFire (CSN only)*
- Supports both sector and card serial number (CSN) reading
- 125-kHz: supports Farpointe's Pyramid Series Proximity® cards and tags, along with optional compatibility with HID and AWID proximity*
- FIPS201, US Government approved Transparent Reader (supports PIV Types A & B)
- TWIC: reads CHUID data
- Wiegand and magnetic stripe outputs standard

Strong Security

- Validation process between readers and Delta 1k & 4k credentials**
- RF transactions between reader & Delta 1k & 4k credentials is encrypted
- Customer exclusive encryption keys available for personalized security
- Anti-Tamper Mode available
- High security dual verification for applications requiring an access credential and/or PIN

Easy Installation

- Mounts directly to a metal door frame (mullion) or directly to a flat surface
- Quick installation, with only two mounting screws necessary
- Horizontal and vertical mounting slots standard for alignment
- Small and slim profile retains building aesthetics
- Electronics are sealed in weather-and tamper-resistant epoxy potting for both indoor and outdoor operation (industry high IP67 rating)

Additional Features

- Adjustable settings available for reader customization
- External standard four-state LED (red, green, amber, off) and audio tone (beeper) with provisions for both system and local control
- Comes standard with black contemporary cover and stand-off



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Validation Process



1. Delta reader and credential exchange and compare secure keys.
2. Keys match – Delta reader collects sector data (long beep).
3. Keys do not match – Delta reader collects card serial number (CSN) (quick beep).

Delta readers are able to read the sector (access control) data and/or card serial number from all ISO 14443 Type A & B compliant credentials. Delta credentials meet the ISO standard and are programmed at Farpointe with a Delta compatible secure key*. During Delta's validation process the credential's secure key is challenged by the reader. If the secure keys match, the reader will read the card's sector data, if the secure keys don't match, the reader will only read the credential's CSN.

* Delta compatible secure keys are also available for credentials programmed with Farpointe's Delta field programmers assigned to authorized partners

Specifications

Dimensions: 4.6" x 3" x 0.7" (166 x 77 x 10 mm)	Operating Temperature: 40° C to +65 ° C
Current Draw: 200 mA average @ 12VDC w/ 125 kHz enabled	Cable Distance: Up to 500 ft.
Input Voltage: +5 to 14 VDC (12V nominal)	Audio Tone: Standard external Piezo beeper
Transmit Frequency: 13.56-MHz & 125-kHz	LED: Standard external four-state LED
Weight: 4 OZ (113 g)	Certifications: FCC, CE, C-Tick, ICC
Read Range: 13.56-MHz up to 3 inches (7.6 cm) 125-kHz up to 3 inches (7.6 cm)	Credential Compatibility: Delta, Pyramid Series Proximity, Mifare, HID 125-kHz, AWID 125-kHz
Mounting: US single-gang wall box or flat surface. Use spacer enclosed when mounting on metal.	Warranty: All Delta readers carry a limited lifetime warranty against defects in materials and workmanship.
Power Supply: Linear supply recommended, 5-14 VDC	



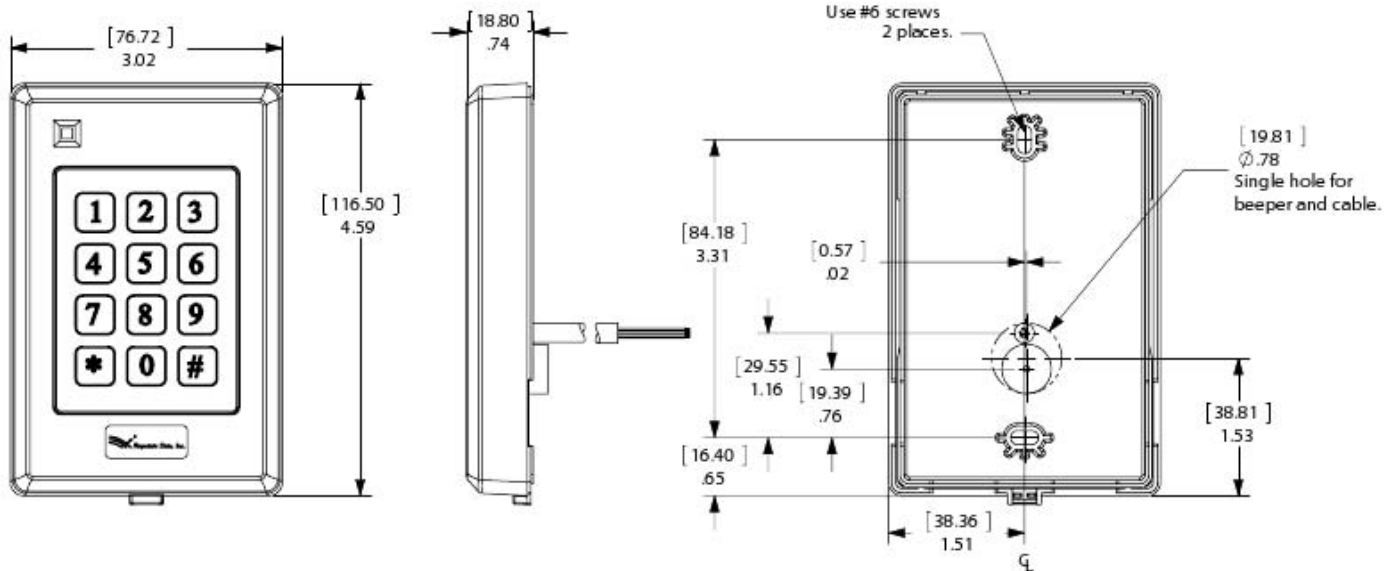
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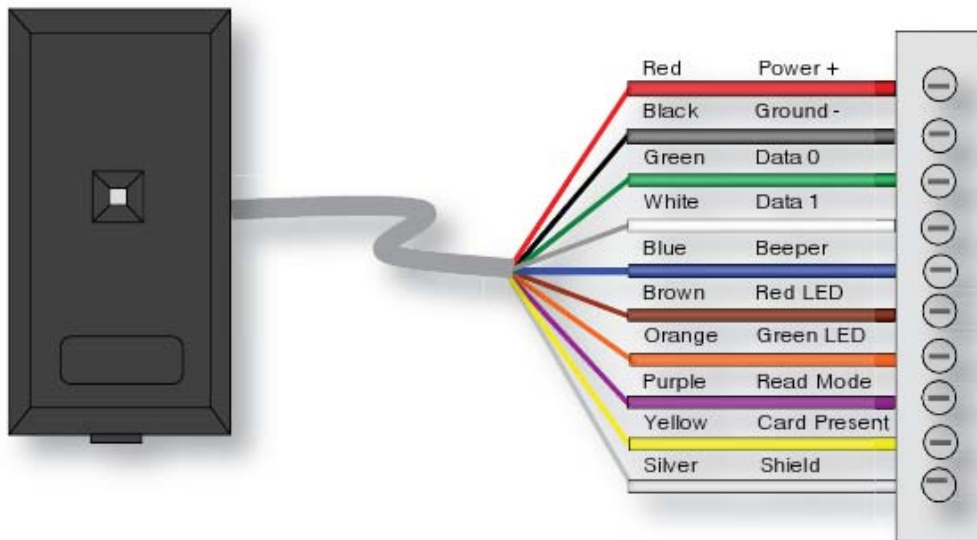
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Multi-Technology Contactless Smartcard Reader Reader & Keypad



Wiring Diagram:



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Multi-Technology Contactless Smartcard Reader Reader & Keypad

How to order

To place an order, please contact your access control systems provider or contact the Farpointe Data team at telephone number +1-650-964-2615 or e-mail address orderentry@pyramidseries.com

Model numbers

Delta3 (Standard) - Supports both 13.56-MHz smartcard and 125-kHz proximity technologies, and standard settings (see standard settings table).

Delta6.4-H - Supports all standard settings with additional 125-kHz HID proximity compatibility.

Delta6.4-A - Supports all standard settings with additional 125-kHz AWID compatibility.

Delta6.4 (Custom) - Delta readers offer a number of adjustable settings. Please fill the adjustable settings table to customize your reader.

Standard Settings

LED	1 line (red LED flashes on card presentation)	Beeper	Reader will beep on card presentation
Output Format	TTL Wiegand or Magnetic Stripe	Read Mode	Sector or CSN
CSN Output	32-bit Wiegand	Wiegand Output	TTL
125-kHz Compatibility	Pyramid Series credentials	FIPS 201 Reading	Reads both FIPS (75-bit CSN output) and Milare
PIV Baud Rate	106kbps	Wiegand Keypad Data Mode	8-bit burst
Keypad Sense Level	Level 1 (lowest sensitivity)	Key & AID	Farpointe's Default

Adjustable Settings

Setting	Description	Change (x)
Magnetic Stripe Format Lock	Locks reader data transfer to magnetic stripe format only.	
Wiegand Format Lock	Locks reader data transfer to TTL Wiegand format only.	
Sector Only Mode	Reader only reads sector data. Will not read the card's CSN.	
26-bit CSN Mode	Reader outputs CSN in 26-bit Wiegand format.	
34-bit CSN Mode	Reader outputs CSN in 34-bit Wiegand format.	
40-bit CSN Mode	Reader outputs CSN in 40-bit Wiegand format.	
Reverse CSN	CSN is output LSB to MSB.	
Open Collector Wiegand	Reader may be placed into open collector Wiegand output mode.	
FIPS Only Mode	Reader will only read and output PIV and TWIC tags.	
MAXSecure	Adds a security handshake for both Delta cards and Pyramid Series proximity cards.	
Dual LED Mode	Single line LED is toggled to dual LED (red and green).	
Beeper Suppress	Reader will not beep upon card presentation.	
LED Suppress	LED will not flash or change color upon card presentation.	
Anti-Tamper	Enable Anti-Tamper mode. Available with Wiegand output only. Additional hardware necessary.	
125-kHz	Disable 125-kHz compatibility.	
HID Proximity Compatibility	Enable HID 125-kHz compatibility.	
AWID Prox compatibility	Enable AWID 125-kHz compatibility.	
Output Sector + CSN	reader will append the CSN of the programmed Delta card onto the Wiegand output of the access control data.	
PIV Baud Rate	Different baud rates available. Default 106kbps. 212 and 424 kbps rates available.	Rate:
Keypad Sense Level	3 different sensitivity levels available. Level 1 comes standard. Level 2 and Level 3 available.	Level:
PIV/TWIC Output	Available in 75-bit, 200-bit, and 245-bit.	Output:
Key and AID update	configures the Delta AIDs, Keys, and sectors to read. Please provide update. Key: _____ AID: _____	

NOTE: To learn more about Delta features and settings reference the Delta settings document posted on our website.



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