



GUARDIAN VANDAL- RESISTANT CONTACTLESS SMARTCARD READERS



D-405

D-410

D-403



Guardian Vandal Resistant



Frequency: 13.56 MHz

Read Ranges:

D-403: Up to 1.5 inches (38 mm)

D-405: Up to 3 inches (76 mm)

D-410: Up to 3 inches (76 mm)



MIFARE[®] DESFire[®] EV1 Support
High-Security Encryption Technology



MAXSecure[™]
Unique Security Feature



ValidID[™]
Fraudulent Data Detection Solution



Warranty
Lifetime Warranty



Wiegand, ABA Track II Magnetic Stripe or OSDP*
Output Interface



Mullion Mount (D-403)
Metal Door, Window Frames & Flat Surfaces



U.S. Single-Gang (D-405) & Double-Gang (D-410) Wall-Box Mount
Metal or Plastic Box & Flat Surfaces



Vandal Resistant
Impact Resistant

*OSDP readers are independent models and need to be appended with the suffix “-OSDP” when ordering (Example: D-403-OSDP).

GUARDIAN VANDAL-RESISTANT CONTACTLESS SMARTCARD READERS

Guardian vandal-resistant readers are manufactured from thick polycarbonate material, feature epoxy potted electronics, and ship standard with tamperproof screws. Guardian readers are ideal for installations where more durability is required than the standard contactless smartcard reader. Such installations include schools, inner-city environments, correctional facilities, or sites where heavy machinery is operated.

Specifications	D-403	D-405	D-410
Technology	Contactless smartcard		
Frequency	13.56 MHz		
Mounting ¹	Mullions, including metal door and window frames, as well as flat surfaces	Metal or plastic US single-gang wall box, as well as flat surfaces	Metal or plastic US double-gang wall box, as well as flat surfaces
Dimensions	2" W x 5.25" H x 1" D (51 mm x 133 mm x 25 mm)	3" W x 4.5" H x 1" D (76 mm x 114 mm x 25 mm)	5" H x 5" W x 1" D (127 mm x 127 mm x 25 mm)
OEM Label Area Dimensions	0.9" W x 0.35" H (22.86 mm x 8.89 mm) with corner radius of 0.06" (1.5 mm)		
Weight	6 oz (170 g)	8 oz (227 g)	13 oz (369 g)
Certifications	FCC, ICC, CE		
IP Code ²	IP67		
Voltage ³	+8 to 14 VDC		
Current Draw	135 mA typical @ 12 VDC		
Read Range ⁴	Up to 1.5 inches (38 mm)	Up to 1.5 inches (38 mm)	Up to 3 inches (76 mm)
Cabling ⁵	24 AWG minimum, multiconductor stranded with an overall foil shield		
Interface	Wiegand (26-bit and custom formats), ABA Track II magnetic stripe (clock and data) or OSDP ⁶		
Operating Temperature	-40° F to 149° F (-40° C to +65° C)		
Color Options	Black		
Audio Tone	Beeper included standard		
Indoor & Outdoor Installation	Electronics sealed in weather- and tamper-resistant epoxy potting		
Warranty	Limited lifetime warranty		
LED	Four-state standard (red, green, amber, and off)		
Technologies Supported ⁷	<p>CSN⁸: Supports CSN-only reading of certain credentials making use of ISO 14443 and ISO 15693 compliant protocols.</p> <p>Sector: Supports CSN + Sector (may include Delta Card Sector⁹, as well as FIPS201 [PIV Type A & B], TWIC, and CAC credentials) reading of certain credentials making use of ISO 14443 and ISO 15693 compliant protocols.</p>		

NOTES:

- 1 Spacer included standard for installations on metal. Depending on environment, additional spacing may be required.
- 2 Self evaluated.
- 3 Linear power supplies are recommended for best operation.
- 4 Using DC1-1 Delta Clamshell Contactless Smartcard with 12 VDC at the reader. Other credentials may be less.
- 5 For example, Belden 9535 or similar, supporting the five conductors comprising the physical layer of the Wiegand interface (power, ground, data 0, data 1, and/or beeper and LED). Alternatively, Belden 9539 or similar, for all reader functions. Shielded, twisted pair (Belden 8723 or similar) for OSDP. Contact your access control system manufacturer for their specific requirements.
- 6 OSDP readers are independent models and need to be appended with the suffix "-OSDP" when ordering (Example: D-403-OSDP).
- 7 Technologies supported may include MIFARE[®] Classic, MIFARE[®] DESFire[®] EV1, MIFARE UltraLight[®] and MIFARE[®] Plus, as well as other credential types.
- 8 CSN = Card Serial Number.
- 9 Examples include, but are not limited to, DC1-1, DM1-3, and DK1-3.

Farpointe Data reserves the right to change specifications without notice.

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