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D8224-SP Low-profile Proximity Card Reader

- **Wiegand or magnetic stripe compatibility**
- **Indoor and outdoor design**
- **LED indicator**
- **Test features**

The D8224-SP Low-profile Proximity Card Reader can use Wiegand protocol or magnetic stripe interfaces. The reader is attractive, easily mounted, with a weatherproof enclosure. The unobtrusive reader is reliable, has a consistent read range, and low power consumption.

Functions

Wiegand or Magnetic Stripe Compatibility

Wiegand output model interfaces with all existing Wiegand protocol access control systems. The magnetic stripe model interfaces with most systems that accept magnetic stripe readers.

Indoor and Outdoor Design

The reader is sealed in a weatherized polycarbonate enclosure designed to withstand harsh environments and provide vandal resistance.

LED Indicator

When a proximity card is presented to the reader, the red LED flashes green and the beeper sounds. Both the beeper and LED configurations can be controlled individually by the host system.

Test Features

During reader startup, a self-test verifies the setup configuration, determines internal or external control of the LED and beeper, and initializes reader operation. An additional external loop-back test allows for verifying the reader outputs and inputs without using additional test equipment.

Installation/Configuration Notes

Compatibility Information

Credentials	D8236-10 Wiegand Proximity Card, 26-bit D8236KF-10 Wiegand Proximity Token, 26-bit D8236TG-10 Wiegand Proximity Adhesive Tag, 26-bit
Systems	ReadykeyPRO Readykey D9412G Control Panel D7412G Control Panel

Mounting Considerations

The D8224-SP proximity reader mounts directly on metal with minimal impact on read range. Use a single-gang electrical box for easy installation.

Cable Distance

Interface type	Cable length
Wiegand	500 ft (150 m)
Magnetic stripe	50 ft (15 m)

Note Recommended cable is 22 AWG (0.8 mm) five-conductor minimum shielded cable. Additional conductors can be required for LED or beeper control.

Technical Specifications

Environmental

Operating Temperature	-22°F to 150°F (-30°C to 65°C)
Operating Humidity	0 to 95% non-condensing

Electrical

Current Requirements	Average: 30 mA (5 VDC); 20 mA (12 VDC) Peak: 110 mA (5 VDC); 115 mA (12 VDC)
Frequency	125 kHz
Power Supply	5 VDC to 16 VDC

Note: Linear power supplies are recommended.

Mechanical

Dimensions	4.7 in. x 3.0 in. x 0.7 in. (11.9 cm x 7.6 cm x 1.7 cm)
Material	Polycarbonate plastic
Weight	3.3 oz (94 g)

Ordering Information

D8224-SP Low-profile Proximity Card Reader Provides Wiegand or magnetic stripe compatibility and an indoor and outdoor design.	**D8224-SP**
Accessories	
D8236-10 Wiegand Proximity Card (26-bit) Randomly-coded proximity card that is Wiegand 26-bit. Each package contains ten cards.	**D8236-10**
D8236KF-10 Wiegand Proximity Token (26-bit) Randomly-coded, gray, plastic, Wiegand 26-bit token. Attaches to a key chain. Each package contains ten tokens.	**D8236KF-10**
D8236TG-10 Wiegand Proximity Adhesive Tag (26-bit) Randomly-coded, gray, plastic, Wiegand 26-bit adhesive tag. Attaches to non-metallic surfaces. Each package contains ten tags.	**D8236TG-10**

Americas:
Bosch Security Systems, Inc.
130 Perinton Parkway
Fairport, New York, 14450, USA
Phone: +1 800 289 0096
Fax: +1 585 223 9180
security.sales@us.bosch.com
www.boschsecurity.us

Europe, Middle East, Africa:
Bosch Security Systems B.V.
P.O. Box 80002
5600 JB Eindhoven, The Netherlands
Phone: + 31 40 2577 284
Fax: +31 40 2577 330
emea.securitysystems@bosch.com
www.boschsecurity.com

Asia-Pacific:
Robert Bosch (SEA) Pte Ltd, Security Systems
11 Bishan Street 21
Singapore 573943
Phone: +65 6258 5511
Fax: +65 6571 2698
apr.securitysystems@bosch.com
www.boschsecurity.com

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T1621995531 | Cur: en-US, V7, 4 Jul 2010