



EM PROXIMITY READERS



EM-50-H

EM-64-H

EM-30-H



EM Proximity Readers



Frequency: 125 kHz

Read Ranges:

- EM-30-H: Up to 3.5 inches (89 mm)
- EM-50-H: Up to 4.25 inches (108 mm)
- EM-64-H: Up to 4.25 inches (108 mm)



ETL Listed — Independently Tested and Certified (Wiegand models)
Conform to UL Standard 294 and ULC 60839-11-1



Warranty
Lifetime Warranty



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



Contactless
Up to 4.25 in (108 mm)



Mullion Mount (EM-30-H)
Metal Door, Window Frames & Flat Surfaces



U.S. Single-Gang Wall-Box Mount (EM-50-H and EM-64-H)
Metal or Plastic Box & Flat Surfaces

*OSDP readers are independent models and need to be appended with the suffix “-OSDP” when ordering (Example: EM-30-H-OSDP).

EM PROXIMITY READERS

The EM Proximity Readers are specialty members of Farpointe Data's proximity family of readers. Based upon proven digital radio frequency identification (RFID) technology, they support certain EM proximity formats, certain HID® 125-kHz proximity protocols, and certain native Pyramid proximity protocols. Allowing for both indoor and outdoor operation, the electronics are secured in tamper-resistant epoxy potting.

Specifications	EM-30-H	EM-50-H	EM-64-H
Technology	Proximity		
Frequency	125 kHz		
Mounting	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 single-gang wall box, as well as flat surfaces
Dimensions	1.7" W × 3.2" H × 0.7" D (43 mm × 81 mm × 18 mm)	3" W × 4.6" H × 0.4" D (76 mm × 117 mm × 10 mm)	3" W × 4.6" H × 0.75" D (76 mm × 117 mm × 19 mm)
OEM Label Area Dimensions	0.9" W × 0.35" H (22.86 mm × 8.89 mm) with corner radius of 0.06" (1.5 mm)		
Weight	3 oz (85 g)	4 oz (113 g)	4 oz (113 g)
Certifications	FCC, ICC, CE, UL Standard 294, ULC 60839-11-1 ¹		
IP Code ²	IP67		
Voltage ³	+5 to 16 VDC		
Current Draw	0.07 to 0.110A		
Read Range ⁴	Up to 3.5 inches (88 mm)	Up to 4.25 inches (108 mm)	Up to 4.25 inches (108 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	-31° F to 150° F (-35° C to +66° C)		
Operating Humidity	0% to 90% relative humidity		
Color Options	Black snap-on cover included standard		
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)		
Keypad Output ⁷	N/A	N/A	Wiegand
Technologies Supported	Certain EM 125-kHz proximity formats ⁸ + certain HID® 125-kHz Proximity protocols ⁹ + native Pyramid 125-kHz proximity protocols ¹⁰		

NOTES:

- Carrying the ETL Label and tested by Intertek, conforms to UL Standard 294 and ULC Standard 60839-11-1. Only Wiegand models have been evaluated.
- Self evaluated.
- Linear power supplies are recommended for best operation.
- Using PSC-1 Standard Light Proximity Card with 12 VDC at the reader.
- 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.
- OSDP readers are independent models and need to be appended with the suffix "-OSDP" when ordering (Example: EM-30-H-OSDP).
- Available only on EM-64 model; 8-Bit Burst Wiegand standard. For 4-Bit Burst and other options, please contact Farpointe Data, Inc. Features may vary based on model.
- Examples may include, and may not be limited to, EM4102 and EM4233.
- Examples may include, and may not be limited to, ProxCard II®, ISOProx® II, and ProxKey® II.
- Examples may include, and may not be limited to, PSC-1, PSI-4, PSM-2, PSK-3, and PDT-1.

Specific features may vary by model.



Farpointe Data reserves the right to change specifications without notice.

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