



EM PROXIMITY READERS



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)



ETL Listed

Independently Tested and Certified to Conform to UL Standard 294



Warranty

Lifetime Warranty



Wiegand

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)

Metal or Plastic Box & Flat Surfaces

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
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
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)
OEM Label Area Dimensions	0.9" W × 0.35" H (22.86 mm × 8.89 mm) with corner radius of 0.63" (16 mm)	
Weight	3 oz (85 g)	4 oz (113 g)
Certifications	FCC, ICC, CE, UL Standard 294 ¹	
IP Code ²	IP67	
Voltage ³	+5 – 16 VDC	
Current Draw	0.07 to 0.110A	
Read Range ⁴	Up to 3.5 inches (89 mm)	Up to 4.25 inches (108 mm)
Cabling ⁵	24 AWG minimum, multiconductor stranded with an overall foil shield. Minimum four conductors required.	
Interface	Wiegand	
Operating Temperature	–40° F to 149° F (–40° C to +65° C)	
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)	
Technologies Supported	Certain EM 125-kHz proximity formats ⁶ + certain HID® 125-kHz Proximity protocols ⁷ + native Pyramid 125-kHz proximity protocols ⁸	

NOTES:

- 1 Carrying the ETL Label and tested by Intertek, conforms to UL Standard 294.
- 2 Self evaluated.
- 3 Linear power supplies are recommended for best operation.
- 4 Using PSC-1 Standard Light Proximity Card with 12 VDC at the reader.
- 5 For example, Belden 9535 or similar.
- 6 Examples may include, and may not be limited to, EM4102 and EM4233.
- 7 Examples may include, and may not be limited to, ProxCard II®, ISOProx® II, and ProxKey® II.
- 8 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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