

WIEGAND ACCESS CONTROL READERS

L410-W Waterproof 125kHz Wiegand 26/34 RFID Access Reader, Resin-Potted

The L410-W is a waterproof, resin-potted wall reader for doors and gates that sends EM4100/TK4100 card numbers to access controllers with a Wiegand 26 or 34 input. It reads 125 kHz cards at 0–100 mm, outputs Wiegand 26 by default or Wiegand 34 with one wire change, and runs on 9–16 V DC. The H410-W is the 13.56 MHz MIFARE Classic version.



- Wiegand 26 or 34 by wire — Wiegand 26 is the default; tie the purple wire to GND for Wiegand 34, with no programming card or software.
- Waterproof resin-potted housing — the electronics are sealed in black resin inside the ABS shell, which the specification describes as waterproof, with an operating range of -25 °C to +75 °C. No IP rating is published.
- Three frequency versions — L410-W for 125 kHz EM4100/TK4100, H410-W for 13.56 MHz MIFARE Classic S50/S70, and D410-W for both bands (availability confirmed in your quotation).
- Long controller runs — Wiegand data travels up to 100 m to the controller over shielded cable.
- Clear user feedback — reads in under 200 ms; the LED changes from red standby to green with a beep, and the gray wire lets the controller drive LED and buzzer.
- Low current draw — 0–100 mA at 9–16 V DC, so it can usually run from a controller's 12 V reader output.

General	
Model	L410-W
Versions	L410-W: 125 kHz; H410-W: 13.56 MHz; D410-W: 125 kHz + 13.56 MHz
Form factor	Wall-mount access control reader, resin-potted
Housing	ABS, sprayed finish, filled with black resin; specified as waterproof (no IP rating published)
Color	Beige

Cards & reading	
Frequency	125 kHz (L410-W); 13.56 MHz (H410-W); 125 kHz + 13.56 MHz (D410-W)
Standards	EM4100 (L410-W); ISO/IEC 14443A (H410-W)
Supported cards	EM4100 / TK4100 (L410-W); MIFARE Classic S50 / S70 (H410-W)
Card access	Read-only (card number / UID)
Read range	0–100 mm (card and environment dependent)
Read time	< 200 ms
Read interval	< 0.5 s

Interface & output	
Interface	Wiegand
Output format	Wiegand 26 (default); Wiegand 34 (purple wire to GND)
Wiegand cable distance	Up to 100 m, shielded cable
Lead length	180 mm ± 5 mm
Wiring	Red: VCC; Black: GND; White and Green: Wiegand D0/D1 (assignment confirmed with your order); Gray: green LED and buzzer control; Purple: format select
Indicators	Red LED standby, green LED on read, buzzer

Ordering versions

L410-W — 125 kHz — EM4100 / TK4100 ID cards

H410-W — 13.56 MHz — MIFARE Classic S50/S70

D410-W — Dual 125 kHz + 13.56 MHz; availability confirmed in your quotation

OEM / ODM options (confirmed per order)

- ◆ 125 kHz EM4100/TK4100 build (L410-W) for existing proximity card systems
- ◆ Dual 125 kHz + 13.56 MHz build (D410-W) for card migrations, on request; availability confirmed in your quotation

Physical & environment	
Power supply	9–16 V DC, 0–100 mA
Dimensions	114 × 76 × 16 mm
Weight	Approx. 190 g
Operating temperature	-25 °C to +75 °C
Humidity	< 90 % RH, non-condensing

Works with

- ✓ EM4100 / TK4100 125 kHz proximity cards and key fobs (L410-W)
- ✓ MIFARE Classic S50 (1K) and S70 (4K) cards, UID read (H410-W)
- ✓ Access control, attendance and parking controllers with a Wiegand 26 or Wiegand 34 reader input
- ✓ 9–16 V DC reader power from the controller or a separate supply

Not designed for

- × Writing, encoding or copying cards (read-only reader)
- × 13.56 MHz MIFARE cards on the 125 kHz L410-W — order the H410-W or D410-W
- × USB or RS485 connection to a PC — for desk enrollment use the L110-U 125kHz USB EM4100 reader
- × PIN entry (card-only reader, no keypad)
- × OSDP secure channel (Wiegand output only)

- ◆ 13.56 MHz MIFARE Classic build (H410-W) for sites issuing smart cards
- ◆ Wiegand 26 or Wiegand 34 chosen at installation by one wire, so one part number serves both controller types