

# Prox80® Reader

125 kHz Proximity

European & Asian Back Box Sized Proximity Card Reader  
5405 (Wiegand), 5408 (Clock-and-Data)



## **ACCESS** reliability.

### Application

HID's Prox80® reader is an 80 mm (3.15") square reader designed to mount directly to European and Asian size single-gang electrical back boxes. With a three-piece, weatherproof potted enclosure and long pigtail (2.7 m / 9 ft) design, the Prox80 is easily installed and provides up to 14 cm (5.5") of read range.

### Features

- ▶ Unique mounting plate accommodates vertical and horizontal mounting hole patterns (60 mm) and Asian (52 mm) hole spacing.
- ▶ The long pigtail (2.7 m or 9 ft) simplifies installation by providing easy cable terminations, and increases reliability by reducing the number of cable joins.
- ▶ Multilingual installation manual supports field personnel in the proper installation of the reader.
- ▶ Available in a grey or white Classic Series cover design with a Wiegand or Clock-and-Data interface.
- ▶ Provides high reliability, consistent read range and low power consumption.
- ▶ Features include multicolor LED and internal control or host control of the LED and beeper.
- ▶ Mounts directly on metal with minimal impact on the read range performance.
- ▶ Can be used with all HID proximity cards and all bit formats.

**Mounting** Mounts on a single-gang European or Asian electrical back box for easy installation. Mounts directly on metal with minimal impact on read range performance.

**Audiovisual Indication** A red LED flashes green and the beeper sounds when reader is presented with a proximity card. The multicolor LED and beeper can also be controlled individually by the host system.

**Diagnostics** On reader powerup, an internal self-test routine checks and verifies the setup configuration, determines the internal or external control of the LED and beeper and initializes reader operation. An additional external loop-back test allows for the reader outputs and inputs to be verified without the use of additional test equipment.

**Indoor/outdoor Design** Sealed in a rugged, weatherized polycarbonate enclosure designed to withstand harsh environments, providing reliable performance and a high degree of vandal resistance.

**Easily Interfaced** Wiegand output model interfaces with all existing Wiegand protocol access control systems. Clock-and-Data (magnetic stripe) model interfaces with most systems that accept magnetic stripe readers.

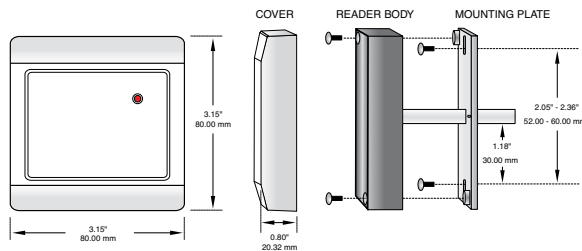
**Security** Recognizes card formats up to 84 bits, with over 1.93x1025 billion unique codes.

**Warranty** Warranted against defects in materials and workmanship for life from date of shipment. (See complete Sales Policy for details.)

**Part Number** Base Part No.: 5405 Wiegand interface  
Base Part No.: 5408 Clock-and-Data interface  
Description: Tri-State LED, internal beeper on

- Options**
- CLASSIC series cover available in white or grey with 2.7 m (9 foot) pigtail
  - LED and beeper operation

Please see "How to Order Guide" for a description of the options and associated part numbers. The "How to Order Guide" can be downloaded in PDF format from: [www.hidcorp.com/support](http://www.hidcorp.com/support).



## Typical Maximum\* Read Range

- ProxCard® II card - up to 5.5" (14 cm)
  - ISOProx® II card - up to 5" (12.5 cm)
  - DuoProx® II card - up to 5" (12.5 cm)
  - ProxKey® II keyfob - up to 2" (5 cm)
  - MicroProx® Tag - up to 2.5" (6.2 cm)
  - ProxCard® Plus card - up to 1.5" (3.7 cm)
  - Smart ISO®/DuoProx® cards - up to 2.5" (6.2 cm)
  - Proximity & MIFARE® card - up to 5" (12.5 cm)
- \*Depending on local installation conditions.

## Dimensions:

- 3.15" x 3.15" x 0.80"
- (8.0 x 8.0 x 2.0 cm)
- Screw slots provided for 52-60mm hole spacing

**Material:** Polycarbonate UL 94

**Power supply:** 5-16 VDC  
Linear power supplies are recommended.

## Current requirements:

- Average: 30 mA (5 VDC); 20 mA (12 VDC)
- Peak: 110 mA (5 VDC); 115 mA (12 VDC)

## Operating temperature:

- 22° to 150° F (-30° to 65° C)

## Operating humidity:

- 0-95% relative humidity non-condensing

**Weight:** 2.2 oz. (63 g)

**Transmit frequency:** 125 kHz

**Excite frequency:** 125 kHz

**Environmental:** IP55

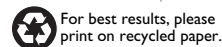
## Certifications:

- UL294/cUL (US), FCC Certification (US), IC (Canada), CE (EU), C-tick (Australia, New Zealand), SRRC (China), MIC (Korea), NCC (Taiwan), MIC (Japan), iDA (Singapore), RoHS

## Cable distance:

- Wiegand interface: 500 feet (150 m)
- Clock-and-data interface: 50 feet (15 m)
- Recommended cable is ALPHA 1295 (22 AWG) 5 conductor minimum stranded with overall shield or equivalent. Additional conductors may be required for LED or beeper control.

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MKT-PROX80-DS-EN



**ACCESS** experience.

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