# Prox80® Reader

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

**ASSA ABLOY**

**HID**

**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.

## Features

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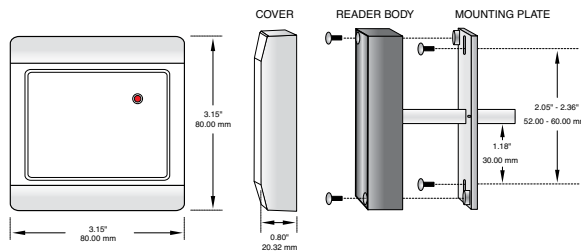
**Security**
Recognizes card formats up to 84 bits, with over 1.93x1025 billion unique codes.

**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.

## Specifications

**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
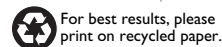
**Environmental:** IP55

**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.



COVER   READER BODY   MOUNTING PLATE

3.15"
80.00 mm

3.15"
80.00 mm

0.80"
20.32 mm

2.05" - 2.36"
52.00 - 60.00 mm

1.18"
30.00 mm

## ACCESS experience.

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