

**Part Number(s):** IRXPT-XO, IRXPT-MXO

**Output:** 26 Bit Wiegand or 37 Bit Wiegand Open Format

**Voltage:** 12 VDC +/-10%, 250mA, Max, or 5 VDC +/-10%, 250mA

**Temperature:** -30° C to +70° C (-30° F to +160° F)

DATA 1 and DATA 0 signals are open collector outputs with 2.2K pull-ups to the internal +5V. The data is sent at 1 msec per bit with a pulse duration of 50 usec. An annunciator beeps with each card read.

The following WIEGAND output is sent each time a card is read:

P S S S S S S S S N N N N N N N N N N N N N N N N N P

BIT 1 2                      9 10    25 26

BIT 1 is an even parity for the following 12 bits. The sum of bits 1-13 is even.

BITS 2-9 are the SITE CODE, part of the card data.

BITS 10-25 This is the card number read.

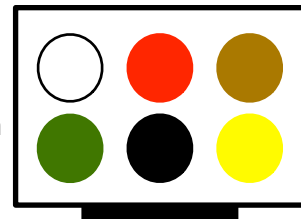
Leading 0's are added as required. Bit 10 is most significant.

BIT 26 is an odd parity over the previous 12 bits. The sum of bits 14-26 is odd.

Example: Site Code of 004 and a card number of 123 read 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 0 1 1 1

Reader Wiring:

Red	+12V DC
Black	12V DC Ground
White	Data 1
Green	Data 0
Brown	External LED Control, grounded = toggle white to green
Yellow	External control of audio beep, grounded = sounds 2.7kHz tone



**CAUTION:** Do NOT run this low voltage wiring in conduit with or adjacent to line voltage wiring.

**The following card formats are supported;**

- iClass
- iClass SE/SR
- iClass Seos
- Mifare Classic 1K/4K & SE
- Mifare Desfire

Plus a number of other formats, contact Essex Electronics for details

**For IRXP models, the following Prox technologies are supported;**

- HID Prox
- Indala Prox
- EM4100
- EM4102
- EM4200
- EM4305
- EM4450
- FDX-B
- T5557
- T5567
- AWID Prox

If the reader is equipped with HID Global mobile access, it is suggested that the installer review HID Global documentation, located here; <https://www.hidglobal.com/solutions/hid-mobile-access-solutions> or downloaded here; [https://www.hidglobal.com/doclib/files/resource\\_files/plt-02078\\_a.1.01\\_mobile\\_access\\_solution\\_overview.pdf](https://www.hidglobal.com/doclib/files/resource_files/plt-02078_a.1.01_mobile_access_solution_overview.pdf) for the installation of the mobile access keys. Such keys are purchased through HID Global.

**WARNING:** Do not use HID Global reader manager to install the mobile access or other keys, the reader manager is not compatible with the reader technology that is used in these readers.

