

KWX Series Wireless Transceivers



- Provides wireless RS-485 networking of PXL-500 *Tiger II Controllers*
- Allows networking of controllers in applications where cabling is difficult or impossible
- 915 MHz and 2.4 GHz models for worldwide compliance, no site license required
- Range up to 300' (91m) with 915 MHz, up to 180' (55m) with 2.4 GHz
- Range can be extended with optional antennas
- Can be used in conjunction with cabled controllers in the same network (mix and match)
- Built in signal strength indicators

Keri's *KWX Series Wireless Transceivers* provide maximum flexibility and ease of installation in access controller network architecture. Designed for any installation where Keri PXL-500 *Tiger II Controllers* will be distributed around the facility or in clusters, these wireless transceivers can transmit RS-485 data between controllers at up to 300' (91m), or even longer with one of several optional antennas. Whether it is to avoid costly trenching across a parking lot to reach other buildings or gates, to avoid a long cable run within a building, or simply to manage all access control points within a single site in the Doors software, wireless data transmission provides the solution.

Cabled and wireless and controllers can both be installed together in single controller network (mix and match), allowing the customer to choose which connection method best suits each controller location. Because transceivers can be placed up to 100' (30m) from the controller, wireless transmission range between controllers can be optimized by proper positioning of the transceivers to avoid interference from building materials such as heating and air conditioning ducts, extending the transmit/receive distance up to 500' (150m) for 915 MHz systems and 380' (115m) for 2.4 GHz systems, under ideal, line-of-sight conditions. Several antenna options can also increase distance or help penetrate extra thick building materials or other objects. To avoid interference between two or more distinct Keri access systems that would be located within the operating range of the transceivers, adjacent customers can each use separate frequencies, 915 MHz vs. 2.45 GHz.



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DATA SHEET

Wireless Transceivers

KWX Series

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Wireless Transceivers

Specifications

Size

5.2" H x 3.8" W x 1.0" T
(132.1mm x 96.5mm x 25.4mm)

Weight (Including Cable)

10.4 oz, (295 g)

Power Requirements

+12 VDC @ 150mA
(supplied through controller)

Operating Environment

32°F to 140°F (0°C to 60°C)
10%-90% Humidity (non-condensing)

Communication

RS-485, 9600 Baud

Frequency

915 KHz (902 MHz to 928 MHz), or
2.4GHz (2.4GHz (2.4000GHz – 2.4835GHz))

Transmit/Receive Range

(no external antenna)
915 MHz: (up to 300' (91m))
2.4GHz: (up to 180' (55m))
See model # table lower right for additional range provided by antenna options

Material

Polycarbonate

Color

Black

Modulation

FHSS Direct FM
(Frequency Hopping Spread Spectrum)

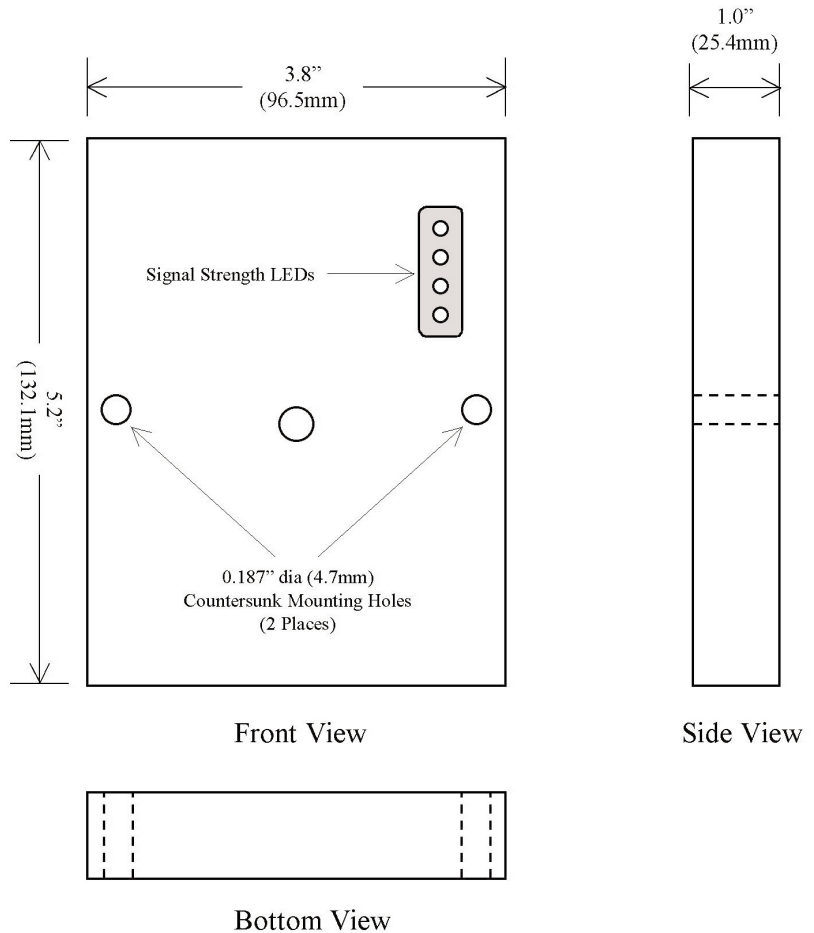
Antenna

Z\ Wave Dipole
RPSMA Connector

Specifications subject to change without notice.

Notes

- Transmit/Receive ranges variable, depending upon antenna configuration, building materials and other environmental factors
- For co-located systems alternately use 915 MHz and 2.4 GHz transceivers
- Contact factory for outdoor mounting instructions



Models

KWX-9A	915 MHz, Channel A RS-485 Transceiver
KWX-24	2.4 GHz RS-485 Transceiver
ANT-91	915 MHz Remote Wiring Antenna (separates antenna from transceiver for better line-of-site)
ANT-94	915 MHz Omni-Directional Extended Range Antenna
ANT-9Y	915 MHz Uni-Directional Extended Range Antenna (Yagi)
ANT-241	2.4 GHz Remote Wiring Antenna (separates antenna from transceiver for better line-of-site)
ANT-244	2.4 GHz Omni-Directional Extended Range Antenna
ANT24Y	2.4 GHz Uni-Directional Extended Range Antenna (Yagi)



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