

ioProx™ Receiver and Transmitters

- ioProx 4-channel receiver
- Read range up to 25 m (80 ft)
- Encrypted code ensures the highest level of security
- Kantech eXtended Secure Format (XSF) or 26-bit Wiegand format-selectable
- 2 or 4 button transmitters
- Model available with integrated ioProx tag



ioProx™ Receiver and Transmitters

The ioProx 4-channel receiver and transmitters provide longer read range without compromising security.

ioProx receiver

The ioProx receiver can be programmed for either Wiegand format, which is compatible with most door controllers on the market, or for Kantech extended Secure Format (XSF) which, when used with one of Kantech's door controllers, provides enhanced security with an additional measure of protection against ID access code duplication.

The ioProx receiver is capable of reading from a distance of up to 24.38 m (80 ft) with a power dipole antenna or 12.19 m (40 ft) with a standard antenna. This longer read range is ideal for applications in remote locations where the limited read range of a traditional access control system is insufficient.

Easy configuration

The receiver is field-configurable, so that jumpers can be set to determine which corresponding button on the transmitter will activate the receiver. The same transmitter can be used to operate up to four different receivers (one per button) located within close proximity to each other and operate even more receivers that are located farther apart.

Easy installation

The ioProx receiver can be installed using unshielded cable to a distance of up to 150 m (500 ft) from the controller. Using this type of cable significantly reduces installation cost.

Technical Specifications	
ioProx Receiver	
Power	12-24 VDC
Operating temperature	-30°C to 68°C (-22°F to 155°F)
Dimensions (HWD) cm	19.21 x 13.02 x 4.14
Dimensions (HWD) in	7.56 x 5.13 x 1.63
Enclosure material	Polycarbonate (HB) with UV stabilizer, weather-resistant, IP56, NEMA 4X rated
Frequency	433.92 MHz
Current	50mA (stand-by), 100mA (peak)
Output	XSF or 26-bit Wiegand selectable
Cable type	2 twisted pairs, unshielded cable
Max. distance from controller at 12 VDC	152 m (500 ft) with 18 AWG 112 m (369 ft) with 20 AWG 76 m (248 ft) with 22 AWG
Certification	FCC

ioProx transmitters

The ioProx transmitters are available in a 2 or 4 button version. With extra long read capability in the 433.92 MHz range, it is an ideal solution for parking lots and garages or anywhere there is a significant distance between a cardholder and the secured entrance.

Encrypted code for higher security

ID credentials consisting of a site and ID number are encoded on the transmitter. When the appropriate button on the transmitter is pressed, it sends this data to the ioProx receiver using incremental packet transmission. This creates a unique code transmission every time the button is pressed so that no one can intercept the code and use it to circumvent the access control system.

Model available with integrated ioProx tag

The ioProx transmitters include a model with an integrated ioProx tag for use with any ioProx card reader. Therefore, if you install the ioProx reader in a parking garage and an ioProx card reader at the building entrance, users can gain access to both using the same transmitter rather than searching for a different key tag or card for each entrance.

2-4 button ioProx Transmitters

Power	3V lithium battery, included (3 year average lifetime)
Operating temperature	0°C to 70°C (32°F to 158°F)
Dimensions (HWD) cm	7.30 x 3.81 x 1.59
Dimensions (HWD) in	2.88 x 1.50 x 0.63
Certification	FCC

Standard Whip Antenna

Read range	Up to 12.20 m (40 ft)
Note: Antenna P-WLS-A1 may be remotely installed using coaxial cable up to 4.5 m (15 ft).	

Power Dipole Antenna

Read range	Up to 25 m (80 ft)
Note: Antenna P-WLS-A2 MUST be installed using coaxial cable up to 4.5 m (15 ft). RG11/U (Belden ref#8213) coaxial cable is recommended.	

Ordering Information

P700WLS	ioProx receiver, 4-channel, XSF/26-bit Wiegand selectable, indoor/outdoor use, including one standard whip antenna (P-WLS-A1)
P72WLS	ioProx 2-button transmitter
P72WLS-TAG	ioProx 2-button transmitter with integrated ioProx Tag
P74WLS	ioProx 4-button transmitter
P74WLS-TAG	ioProx 4-button transmitter with integrated ioProx Tag
P-WLS-A1	Standard whip antenna for P700WLS
P-WLS-A2	Power dipole antenna for P700WLS