



WLS-5500 Receiver and Transmitters

Long-range solution

Features That Make a Difference:

- Kantech Secure Format (KSF) or 26-bit Wiegand format selectable receiver
- Supports Kantech Secure Format (KSF) or 26-bit Wiegand format transmitters
- Read range up to 45 m (150 ft)
- One-button transmitter - full and keytag versions
- Easy to configure and install
- Ideal for parking garages and garage entrances

WLS-5500 Receiver

The WLS-5500 receiver is designed to interface with an access control panel card reader using Wiegand format or Kantech Secure Format (KSF). 26-bit Wiegand format is compatible with most door controllers on the market, while the KSF format can be used with one of Kantech's door controllers. The receiver receives the ID credentials from the transmitters which consist of a site code and ID number.

The WLS-5500 receiver can read from a distance of up to 45.72 m (150 ft) with a power dipole antenna or 30.48 m (100 ft) with a standard whip 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 DIP switches can be set in the ON or OFF position to determine which format will activate the receiver.

Easy and Cost-Effective Installation

The WLS-5500 receiver can be installed using unshielded cable up to 150 m (500 ft) from the controller. Using this type of cable is simple to install and significantly reduces installation costs.

KSF Security

KSF format is compatible only with Kantech software. This innovative format recognizes over 16.7 million unique codes which provides increased security and guarantees against card/transmitter duplication.

Transmitter

The WLS-5500 receiver communicates with a one-button transmitter which is available in full (WLS-3700KSF and WLS-3700) and keytag (WLS-3710KSF and WLS-3710) versions. A red confirmation indicator light will flash for the duration the button is being pressed to confirm transmission.

WLS-5500 Receiver

Power	12 – 24 VDC
Current	50 mA (stand-by); 100 mA (peak)
Frequency	303 MHz
Operating Temperature	-30° to 68° C (-22 ° to 155° F)
Dimensions (H x W x D)	19.21 x 13.02 x 14.14 cm (7.56 x 5.13 x 5.57 in)
Enclosure Material	Polycarbonate (HB) with UV stabilizer, weather-resistant
Output	KSF or 26-bit Wiegand selectable
Cable Type	Three 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
Transmitter Compatibility	WLS-3710KSF, WLS-3710, WLS-3700KSF, WLS-3700
Certification	FCC

WLS-3700KSF or WLS-3700 Transmitters

Power	9V battery, included (one year average lifetime)
Operating Temperature	-40° to 65° C (-40° to 150° F) at 85% humidity
Dimensions (H x W x D)	9 x 6.35 x 1.9 cm (3.5 x 2.5 x 0.75 in)
Certification	FCC

WLS-3710KSF or WLS-3710 Transmitters

Power	12V battery, included (one year average lifetime)
Operating Temperature	-40° to 65° C (-40° to 150° F) at 85% humidity
Dimensions (H x W x D)	5.7 x 3.8 x 1.28 cm (2.25 x 1.5 x 0.50 in)
Certification	FCC

WLS-A1 Standard Whip Antenna¹

Read Range	Up to 30 m (100 ft)
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WLS-A2 Power Dipole Antenna²

Read Range	Up to 45 m (150 ft)
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Ordering Information

WLS-5500	WLS receiver, KSF/26-bit Wiegand selectable, indoor/outdoor use. Compatible with WLS-3700KSF, WLS-3710KSF, WLS-3700, and WLS-3710. Antenna (WLS-A1 or WLS-A2) sold separately.
WLS-3700KSF	WLS transmitter, full size, KSF format
WLS-3710KSF	WLS transmitter, keytag, KSF format
WLS-3700	WLS transmitter, full size, 26-bit Wiegand format
WLS-3710	WLS transmitter, keytag, 26-bit Wiegand format
WLS-A1	WLS standard whip antenna
WLS-A2	WLS power dipole antenna

(1) Antenna WLS-A1 may be remotely installed using coaxial cable up to 4.5 m (15 ft)

(2) Antenna WLS-A2 must be installed using coaxial cable up to 4.5 m (15 ft), RG58/U (Belden ref #7807A or #7807R) coaxial cable is recommended. Optional.

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