



Maximum RFID

XK-3640™ UHF Card & PIN Reader



AWID's XK-3640 UHF Switchplate-Type Reader is the link between card access by people at doors in buildings, and vehicle access at gates for parking. The XK-3640 reads the same UHF hand-held cards and tags that drivers use for vehicle identification and gate control at a parking facility, and adds the convenience of a 12-key keypad for PINs. The cards and tags are compatible with AWID's LR-2000, LR-2200 and LR-3000 long-range readers and their "HiLo" sets. The enclosure is a striking, deep black design.

Installation The XK-3640 reader fits perfectly on a single-gang electrical utility box, a wall, or other surface, using two screws (supplied). With simultaneous Wiegand and RS-232 data output, the XK-3640 reader can be interfaced for a wide variety of access control, special system control, and user identification applications.



Features The keypad's output is field-programmable for either 4- or 8-bit key bursts or 26-bit code transmission. The reader's 2-color LED and beeper are controlled by the reader itself. No external wiring is required for this feedback.

The XK-3640 reader-keypad is *self-testing*, using its LED and beeper as indicators. It needs no interface to a controller to show that it is performing correctly. The reader can be demonstrated with just a DC power source (even a battery) and a card or tag.

Operation The system's Operation Mode may be any combination of card-read and PIN-entry, including card-reader-only or keypad-only. The card reader operates in "repeat read" mode. While a card or tag is held in the reader's read range, it transmits the card's code twice every second.

Environment The XK-3640 may be installed indoors or outdoors. The reader is secure when its cover is in place after installation. The electronic circuits are protected from moisture. If exposed directly to rain, water sprinklers, or vandalism, an optional protective housing assures carefree life.

Credentials The hand-held cards and tags for the XK-3640 are the same as the credentials that AWID offers for its UHF long-range readers in gate applications for vehicle access. Encoding in the cards and tags has the same format and data fields as in AWID's credentials for all other reader types.

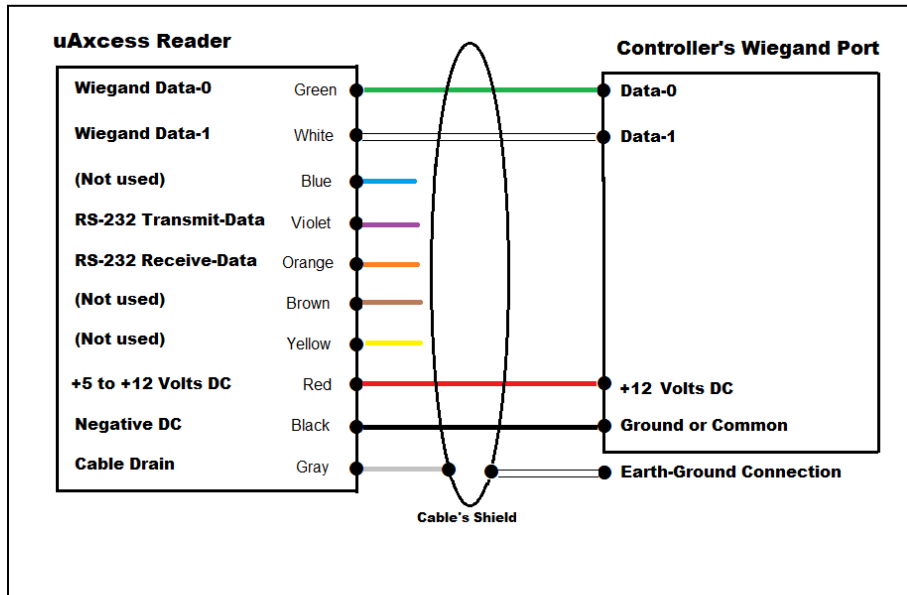
The XK-3640 reader's read range is up to 6 inches. (Mounting the XK-3640 directly on metal slightly reduces the read range.) Presenting any AWID UHF card or tag to the reader causes the beeper to sound and the LED to change color momentarily.

FEATURES

- People access by cards and PINs ...
Same cards for vehicles and people
- Quick access at busy entrances ...
Read range up to 6 inches
- Easy mounting ...
Fastens on electrical box or wall
- Easy wiring for power and data ...
Connects like a proximity reader
- Combines car and people access ...
Interfaces to common access control
- Program keypad format in field ...
Set 4 or 8 bit bursts, or buffered 26 bits
- Program keypad's site code ...
Set site code (001-255) for 26-bit PIN
- Compatible with access systems ...
Standard code formats & interfaces
- Visible and audible feedback ...
Reads indicated by LED and beeper
- Great appearance in all locations ...
Attractive enclosure, small size

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ACCESSORIES AND SUPPLIES

- Mounting hardware - Screws for single-gang electrical utility box are supplied with the XK-3640 reader.
- Power supply—The XK-3640 reader operates with voltage between +5 volts and +12 volts DC. Most controller panels provide suitable voltage and current on the "+DC Power" and "Ground" terminals. An external DC power supply (nominal +12 volts, 1 ampere, linear-rated, regulated output) may be used. Ask AWID about specifications.
- Cable for power and data – A single cable interfacing the reader to the panel should be 22 gauge, 4 conductors, **overall shielded**, stranded wires, color-coded, not twisted pairs. Using Wiegand interface, cable may be up to 500 feet long for power and data.
- Installation Sheet - Download full instructions from AWID's Web site www.awid.com.

CREDENTIAL OPTIONS

- Hand-held cards and tags – Clamshell and graphics UHF cards, and keytag (use also for LR-2000, LR-2200 and LR-3000 readers). Ask AWID about selection and instructions.
- All credentials must be AWID's products that are specified for this reader model.

OPERATING CHARACTERISTICS

Reading Distance:

On wall or metal – up to 6 inches

Frequency Band:

902 to 928 MHz

Frequency-hopping technology

Power Supply:

+5 to +12 volts DC supply; rated 1.0 ampere or more; linear type; regulated DC output (Panel's power terminals are OK.)

Communications Protocol:

Card reader—both Wiegand & RS-232 outputs
Keypad—Wiegand output only

Code Formats for Card Reader:

Programmed by AWID into UHF credentials
Card reader reads 26-bit to 50-bit codes

Cable (for Wiegand Interface):

22 gauge, 4 wires, stranded, color-coded
Overall shielded for both *power and data*
Up to 500 feet long for Wiegand interface

PHYSICAL CHARACTERISTICS

Dimensions:

3.1 x 4.9 x 1.0 inch (7.9 x 12.5 x 2.5 cm)

Weight:

8 ounces (227 grams)

Material (Color):

ABS 2-part enclosure (black)

Cable (Integrated with Reader):

10 conductors, 18 inches long
Overall shielded, gray plastic jacket

Mounting (Supplied by Installer):

On wall, or single-gang utility box

ENVIRONMENT

Operating Temperature:

-31°F to +150°F (-35°C to +65°C)

Operating Humidity:

0% to 95% non-condensing

Protection from Environment:

Use protective housing when keypad is exposed to rain, snow, or vandalism

CERTIFICATION

FCC Part 15; IC; RoHS compliant

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