

Installation Sheet (Wiegand Interface) XM-700 UHF Card Reader

These instructions are for AWID’s Model XM-700 switchplate-type reader, using compatible UHF credentials from AWID.

Parts List

(a)	1	Installation Sheet XM-700	(d)	1	2mm Allen Wrench
(b)	1	Model XM-700 Reader	(e)	2	M3x0.5x6 - Cover Screws
(c)	2	#6-32X 1” machine screw			

Preparation

Reader Location: Select the reader’s mounting location. The XM-700 Reader may be screwed to a single-gang utility box, to a wall or other surfaces. Mounted on a metal surface, the read range may be reduced.

DC Power Supply: Separate – independent from any other device. Dedicated – only this reader connected to the power supply. Do not draw the reader’s power from the system’s controller. Nominal 12 volts DC supply to the reader. Current capacity, 1 ampere or more. Regulated DC output.

Cable: To the system’s panel: 4 conductors from the reader to the panel (2 wires for DC power, and 2 wires for Wiegand data). 22 gauge. Overall 100% shield for both power and data. 500 feet maximum length.

- The reader’s **Black** wire must be connected to *both* the DC power supply’s Negative terminal and the panel’s Ground terminal.
- If the DC power supply is close to the reader, run two 22 gauge cables – 2 wires for DC power, and 3 wires for Wiegand data. Both cables must be overall-shielded and earth-grounded.
- Conduit: If cables are pulled through metal conduit, the conduit should be earth-grounded (like the cables).

Procedure

1. **Connector** – Cut off the 10-pin connector from the end of the reader’s cable. Discard the connector.
2. **Remove Back plate** – Using the supplied Allen Wrench, remove the cover screw located on the bottom of the reader. Separate the metal back plate from the reader. (Figure 1)
3. **Install Back Plate** – Feed the Access Control wiring through the Back Plate. Line up the Back Plate with a single gang junction box or flat surface. Have the cover screw hole located on the bottom of the plate and fasten with the provided screws. (Figure 2)



Figure 1



Figure 2

4. **Wire Connections** – Connect the reader's wires to the cable(s) for power and data.

Connect the reader's Ground **black**, Data-0 **green**, Data-1 **white**, Shield **gray** and last +DC Power **red**. Secure all unused wires. (Figure 3)

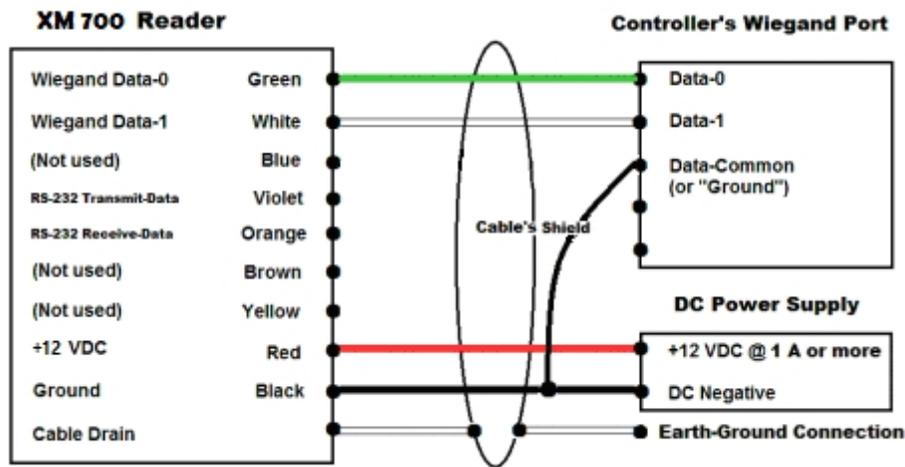


Figure 3

5. **Install Reader** – Feed the reader's cable through the Back plate. Hinge the XM-700 from the top and pivot securely into place. (Figure 4) Install the reader onto back plate ensuring it is flush with the mounting surface. Secure the reader to the back plate with the Cover Screw.



Figure 4

6. **Reader Test** – When power is applied to the XM-700, the LED initializes to steady-blue for standby, and the beeper sounds. With every presentation of an AWID UHF card to the reader, the LED changes color momentarily, and the beeper sounds briefly.
7. **System Test** – Wire the reader to the system's controller. Program the code for the AWID UHF card or tag into the host system, with full priority, all doors groups, and all time zones. Present the card or tag to the reader. Observe door unlock or gate opening, indicating "Access Granted" by the system.

Technical Support • Call 408-825-1100, option 1. E-mail Support@awid.com