

### IRX-PP38 IR Sensor Overview

The IRX-PP38 IR sensor is designed to provide optimum functionality for IR reception and transfer to high-end devices such as plasma televisions which sometimes can have issues with other receivers. The IRX-PP38 is compatible with AMX's newest NI-700 and NI-900 NetLinx Master Controllers.

IRX-PP38 Specifications	
Current Draw:	• 10 mA @ 12VDC
Dimensions (HWD):	• 0.56" x 3.88" x 1.06" (1.43 cm x 9.84 cm x 2.70 cm)
Features:	<ul style="list-style-type: none"> <li>• Relies on both optical and electronic filtering to reject interference from fluorescent lamps and plasma displays.</li> <li>• Supports an AMX IR frequency of 38 KHz.</li> </ul>
Mounting:	<ul style="list-style-type: none"> <li>• Main unit can either be hidden behind other electronics or secured to a surface near the target device.</li> <li>• Maximum wire distance to an NI700/900: 200 feet (60.96 meters)</li> </ul>
IR Sensor Components:	<ul style="list-style-type: none"> <li>• IR Feedback LED (blue). LED illuminates when it receives an IR signal.</li> <li>• 3-pin mini-Phoenix connector. Wires the IRX-PP38 to the IR receive port on compatible AMX devices.</li> <li>• Terminal IR sensor. This sensor adheres to any object within the line of sight of your remote and enables you to receive control signals from either an IR Emitter or a hand-held remote control.</li> <li>• Two screw openings. These openings (located at opposite ends of the main IR sensor) are used to secure the unit. This portion of the IRX-PP38 is kept out of sight whereas the terminal IR sensor adheres to the IR window.</li> </ul>
Included Accessories:	<ul style="list-style-type: none"> <li>• Adhesive foam (pre-installed onto the terminal IR sensor)</li> <li>• IRX-PP38 Installation Guide (93-0460)</li> <li>• Two black metal screws (#2 x 3/8")</li> </ul>

### IRX-PP38 Plasma-Proof Components

The terminal IR sensor is wired to the main unit via a 34-inch long (2.83 feet) cable. The main unit provides both an on-board blue LED (to confirm IR reception) and a 3-pin mini-Phoenix connection used to wire the sensor to the IR RX (sensor) port on the back of a compatible AMX device (such as the NI-700/900 Controllers).

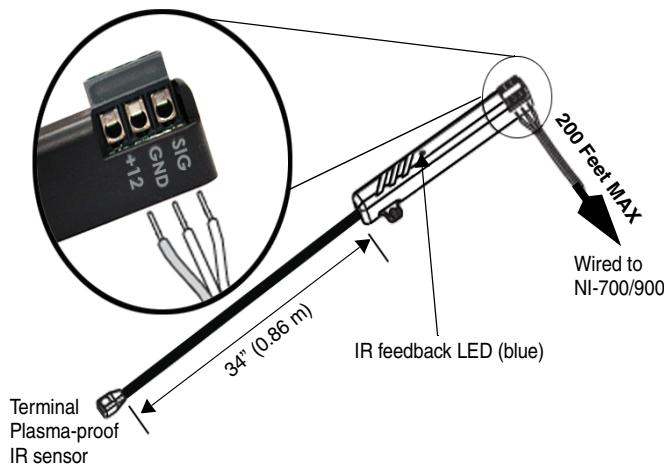


FIG. 1 IRX-PP38 connector

### Wiring the IRX-PP38 IR Sensor

The maximum wiring distance between the IRX and a target NI Controller (such as the NI-700 and NI-900) is **200 feet** (60.96 meters). FIG. 2 displays a sample wiring diagram which shows how you can wire a single Controller for communication to two separate IRX IR sensors.

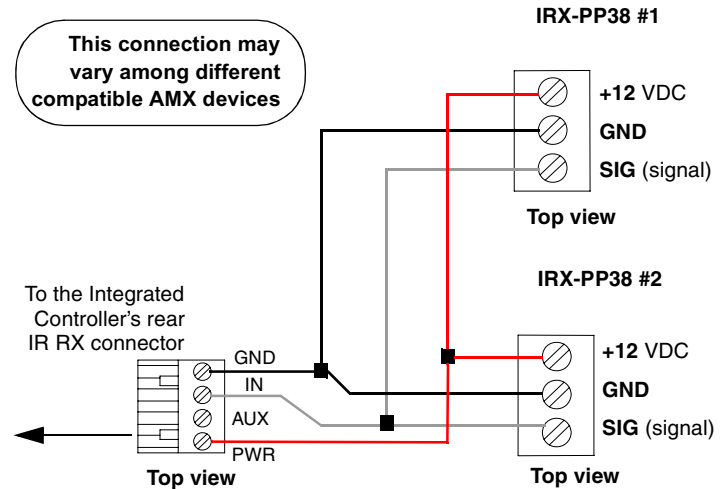


FIG. 2 Sample wiring diagram between NI Controller and multiple IRX sensors

### Installation Overview

**Note:** Never pre-tin wires for compression-type connections.

1. Strip 0.25 inch (6.35 mm) of insulation off all wires.
2. Insert each wire into the appropriate opening on the IRX-PP38 connector according to the wiring diagrams and connector types described in FIG. 2. **Note:** Always match the wiring on each end of these connections. If you are using a red insulated wire to supply power on one connector, make sure you thread this same wire into the PWR connector at the other end.
3. Insert each wire into the appropriate opening on the NI's rear IR RX connector, according to the wiring diagrams and connector types described in FIG. 2.
4. Tighten the screws to secure the wires into their respective connectors. **Note:** Do not tighten the screws excessively. Doing so may strip the threads and damage the connector.
5. Remove the cover off the adhesive foam on the IR sensor.
6. Adhere the adhesive flat side of the terminal plasma-proof IR sensor to any object within the line of sight of your remote. Make sure the raised oval side of the terminal IR sensor (opaque) is facing outwards and can receive the IR signal from the remote (such as a Mio R-1).

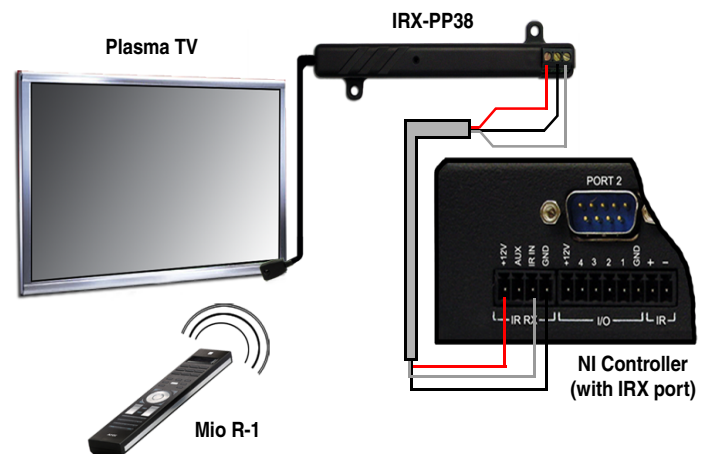


FIG. 3 Equipment wiring overview

You can use the IRX-PP38 in any installation where a previous AMX IRX device was used. For illustration purposes, the NI-900 is used in this document's wiring diagrams.

**Note:** The IRX-PP38 uses the IR input port on an NI-700/900 controller (one IRX-PP38 per NI-700/900).

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