

TVS

TV Sensor



AMX
Technology

Control System Accessories

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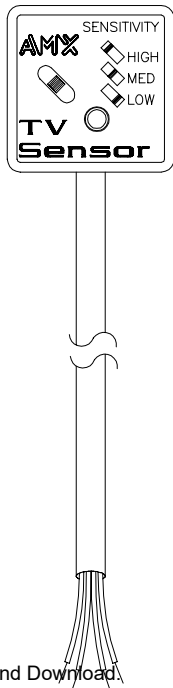
TVS TV Sensor Overview

The TVS TV Sensor detects whether a CRT (TV or monitor) is powered on by detecting the electromagnetic field generated by the CRT's electron gun mounted in the picture tube yoke. When the sensor detects this field, the TVS signal output (yellow wire) goes low.

The TVS detects horizontal scan frequencies up to 90 kHz.

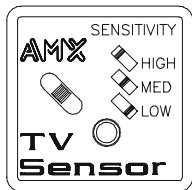
Mount the TVS directly to the CRT with supplied Velcro™ strips, and connect to the INPUT/OUTPUT connectors on AMX devices. TVS features include:

- Three-position switch sets the TVS detector sensitivity.
- Green LED signal indicator lights when a signal is detected.
- Compatible with any AMX device that accepts inputs (AXC-INP8, CPI-16, AXCENT3, etc.).

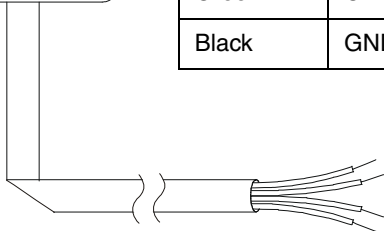


Wiring the TVS

Connect the TVS cable to the INPUT/OUTPUT port connectors on the AMX device. The following table describes the TVS wiring configuration.



Wire color	Connects to
Yellow	Signal
Red	Power (+12 VDC)
Green	GND
Black	GND



Installation Guidelines

Follow these guidelines when installing the TVS:

- When connecting the TVS to an INPUT/OUTPUT port on an AMX device, the Yellow (signal) wire is connected to the I/O pin on the INPUT/OUTPUT port.
- Do not over-torque screws on the connector. Doing so can damage the seating pin and damage the connector.
- If your application includes multiple CRT's in close proximity, use MED or LOW sensitivity settings to minimize potential interference.
- Mount the TVS close to the picture tube yoke. In most cases, the picture tube yoke is located in the rear center of the CRT cabinet. Be sure to place the TVS in a position where the green LED signal indicator is visible during installation.

Installing the TVS

To install the TVS:

1. Connect the TVS to the AMX device's INPUT/OUTPUT connector, following the wiring configuration chart (see *Wiring the TVS*).
2. Turn on the CRT.
3. Set the SENSITIVITY switch on the TVS to MED.
4. Position the TVS on the CRT cabinet so it is as close to the picture tube yoke as possible. The green LED signal indicator must be visible during the installation process.
5. If the green LED signal indicator does not light, move the TVS closer to the picture tube yoke, or set the SENSITIVITY switch to HIGH, or do both. To accommodate the electromagnetic field produced by large CRT's, you may have to move the TVS away from the picture tube yoke and/or reduce the sensitivity setting.
6. When the green LED signal indicator lights, fasten the TVS to the CRT cabinet with the supplied Velcro™ strips.

TVS Specifications

Dimensions (HWD):	1.07" x 1.07" x .78" (2.72 cm x 2.72 cm x 1.99 cm)
Weight:	0.10 lbs (45.36 g)
Housing:	High-impact ABS plastic (black)
Operating temperature range:	32°F (0°C) to 112°F (°50C)
Operating input voltage:	+10 VDC to +16 VDC
Signal output:	Active low, open collector, 1k ohm output impedance, +16 volt maximum
Cable length:	10 ft

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