[AN027]

ADVANCED NETWORK DEVICES

Zone Sensor Interface Controller (ZONE-SIC)

Version 2.0

9/1/2017

3820 NORTH VENTURA DR.

ARLINGTON HEIGHTS, IL 60004

U.S.A

PROPRIETARY NOTICE AND LIABILITY DISCLAIMER

Static Electric Warning

TROUBLESHOOTING AND ADDITIONAL RESOURCES

Complete Support Site with User Guides & Help:	http://www.anetdsupport.com/
Additional App Notes:	http://www.anetdsupport.com/AppNotes
Customer Feedback Survey:	http://www.anetdsupport.com/survey
AND Legal Disclaimer:	http://www.anetd.com/legal

OVERVIEW

The ZONE-SIC provides access to the following signals:

- 2 Sensor Ports
- 1 General Purpose Output Relay: Dry contact closure or switched DC (factory set to 12VDC)

Device Requirements

Power source IEEE 802.3af PoE or IEEE 802.3at PoE+

INSTALLATION

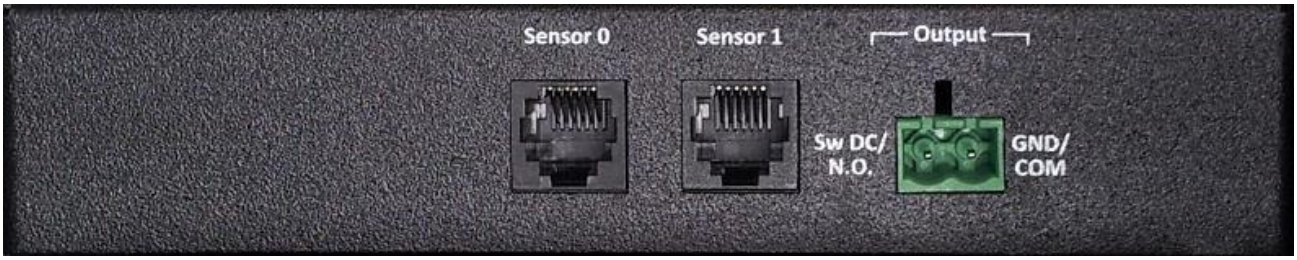
The device can mount to a wall using the four keyhole features located at the corners of the device with wall anchors appropriate to the installation surface. The device can power with PoE or PoE+, connected via an Ethernet cable to the PoE / PoE+ input. When applying power, the green Power LED will illuminate.

With an output configured for switched +12 or +24 VDC, please make sure not to leave the output in a manner that could result in +12 or +24 VDC shorted to ground. Also, ensure the power pins on the sensor jack(s) do not short to ground.

SETUP AND USE

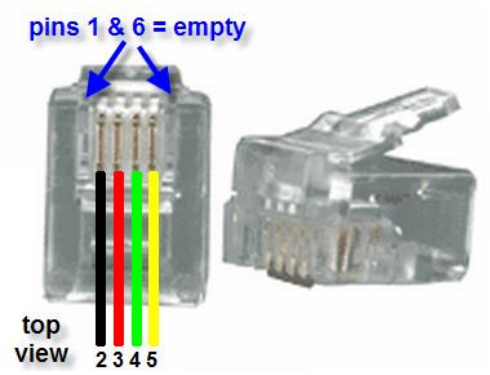
Use a standard RJ-14 male plug for the sensor inputs. A Phoenix Contact 1757019 or similar plug will suffice for the relay output connection.

See the Application Notes on http://www.anetdsupport.com/AppNotes for details on the use of the general purpose input and output signals.



Sensor Control RJ-11 / RJ-14 Connector Pinout

(pin numbering from left to right)



RJ-14 Pin	Standard Wire Color	Function
1	N/C	N/A
2	Black	+24 VDC @ 100mA
3	Red	+12 VDC @ 100mA
4	Green	GND
5	Yellow	Sensor Input (12 – 24 VDC)
6	N/C	N/A

Please use caution to not short the +12 and +24 VDC outputs to ground.

Relay Output Connector Pinout

(pin numbering from left to right)

Pin	Function
1	Switched DC / Relay N.O.
2	Ground / Common

Output Mode Configurations

The relay output comes factory configured for +12 VDC output, where Pin 1 is +12 VDC @ 250mA and Pin 2 is ground. To configure the output for +24 VDC@125mA output, or as a dry contact up to +24 VDC, please contact AND technical support at tech@anetd.com. Use caution not to short the +12 or +24 VDC output to ground.

Dry Contact Closure

Connect the external circuit between “N.O.” (normally open) and “COM” on the relay output connector. When the output is activated, the path between “N.O.” and “COM” will become closed/shorted. Please contact AND technical support at tech@anetd.com to set the output relay to the dry contact closure mode.