

GENERAL INFORMATION

The Net3 I/O Gateway provides network data distribution of contact closures and RS232 serial throughout your facility using Ethernet. Built on the reliability and quality of ETC's Network development, Net3 gateways are built for the Net3 protocol powered by the industry standard ACN. The I/O Gateway uses ACN communication with other network devices to forward Contact and Relay data as well as RS232 signals with the Net3 control system.

APPLICATIONS

- Convention Halls
- Hotel Meeting Rooms and Ballrooms
- Theme Parks
- Architainment Applications
- Road House
- Touring
- System Integration

FEATURES

- Distributed Contact Closures input and output over Ethernet
- Distributed serial protocol over Ethernet
- Supports multiple connections for
 - Analog 0-10V or digital closures
 - SPDT Relay or contact closure outputs
 - RS232 Serial
- Supports Net3 protocol powered by ACN
- LCD screen for labeling, status and configuration information
- Power and Network status indicators
- Power over Ethernet (PoE) or external DC power supply
- Versatile compact size
- Configurable using Network Software utility (GCE/NCE) or directly from AC

ORDERING INFORMATION

Net3 I/O Gateway

MODEL	DESCRIPTION
N3IOG	Net3 I/O Gateway

Net3 Gateway Accessories

MODEL	DESCRIPTION
N3GA-PS	Net3 Gateway Universal Power Supply*
N3GA-RM	Net3 Gateway Rack Mount Kit
N3GA-HBU	Net3 Gateway Hanging Bracket Kit with U-bolt

*N3GA-PS includes plugs for United States/Japan, Europe, Great Britain, and Australia/China. Used with Net3 Four-Port, Two-Port, Show Control and I/O Gateways.



SPECIFICATIONS

GENERAL

- Distributes connections to RS232, relay closure outputs, and contact closures for analog or digital input
- RoHS Compliant (lead-free)
- CE compliant and ETL LISTED

FUNCTIONAL

- Supports Net3/ACN (ANSI E1.17)
- Compliant with IEEE 802.3i for 10BASE-T, 802.3u for 100BASE-TX and 802.3af for Power over Ethernet
- SPDT Contact closures configurable for normally open (NO) or normally closed (NC)
- User configurable turn on voltage threshold

MECHANICAL

- Fabricated from 16-gauge cold-rolled steel
- Finished in black fine-texture, scratch-resistant, powder coat
- Menu Button for backlight/paging control
- Backlit LCD display for identification and status reporting:
 - Gateway identification
 - Network configuration
 - Contact Closure and Relay Configuration
- Front and rear Power and data indicators
 - Blue power indicators
 - Green network activity indicator
- Front Panel RJ45 for connection to lighting network
- Reset button for hard reset or forced reboot
- Sixteen SPDT Form C relay or contact closure outputs via two DB25 connectors
- RS232 output via DB9 connector
- Optional pipe-mount and rack-mount kits available
- 1U height
- 1/2 rack width support side by side mounting of two NET3 Gateways

ENVIRONMENTAL

- Ambient operating temperature: 0° to 40°C (32° to 104°F)
- Operating humidity: 5% - 95% non-condensing
- Storage temperature: -40° to 70°C (-40° to 158°F)

POWER

- Supports IEEE802.3af Power over Ethernet or optional 8-28Vdc external power supply
- Maximum power consumption less than 5 watts
- Relay output maximum rating:
 - 1A at 30V DC

ADDITIONAL INFORMATION

ACN

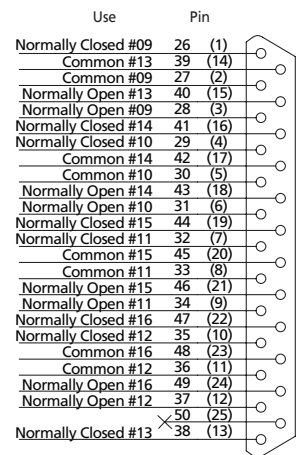
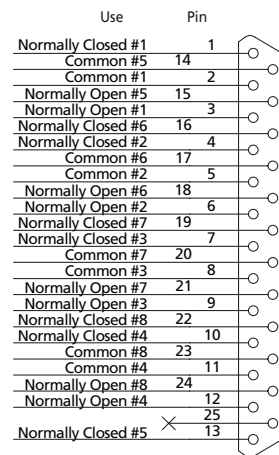
Architecture for Control Networks (ANSI E1.17) is a standard for high-speed bidirectional communication over TCP/IP on Ethernet network infrastructure. ACN is an open suite of protocols used between network devices for the purposes of greater and more adaptive control.

NET3

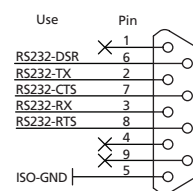
ETC's enhanced implementation of the standard ACN Protocol Suite (ANSI E1.17 and E1.31) including additional communication protocols for specialized applications and support of legacy systems.

PIN OUTS

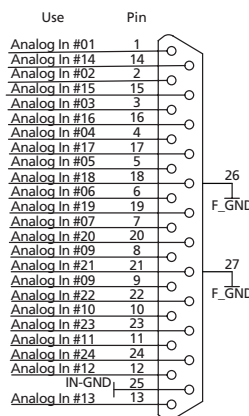
Relay Out (Dual DB25)



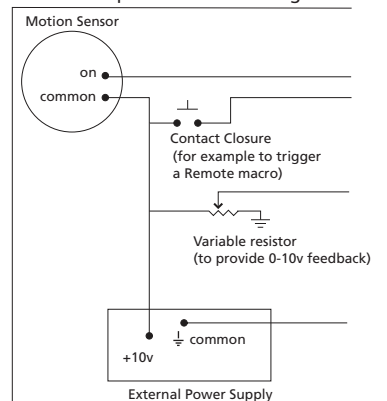
RS232 (DB9)



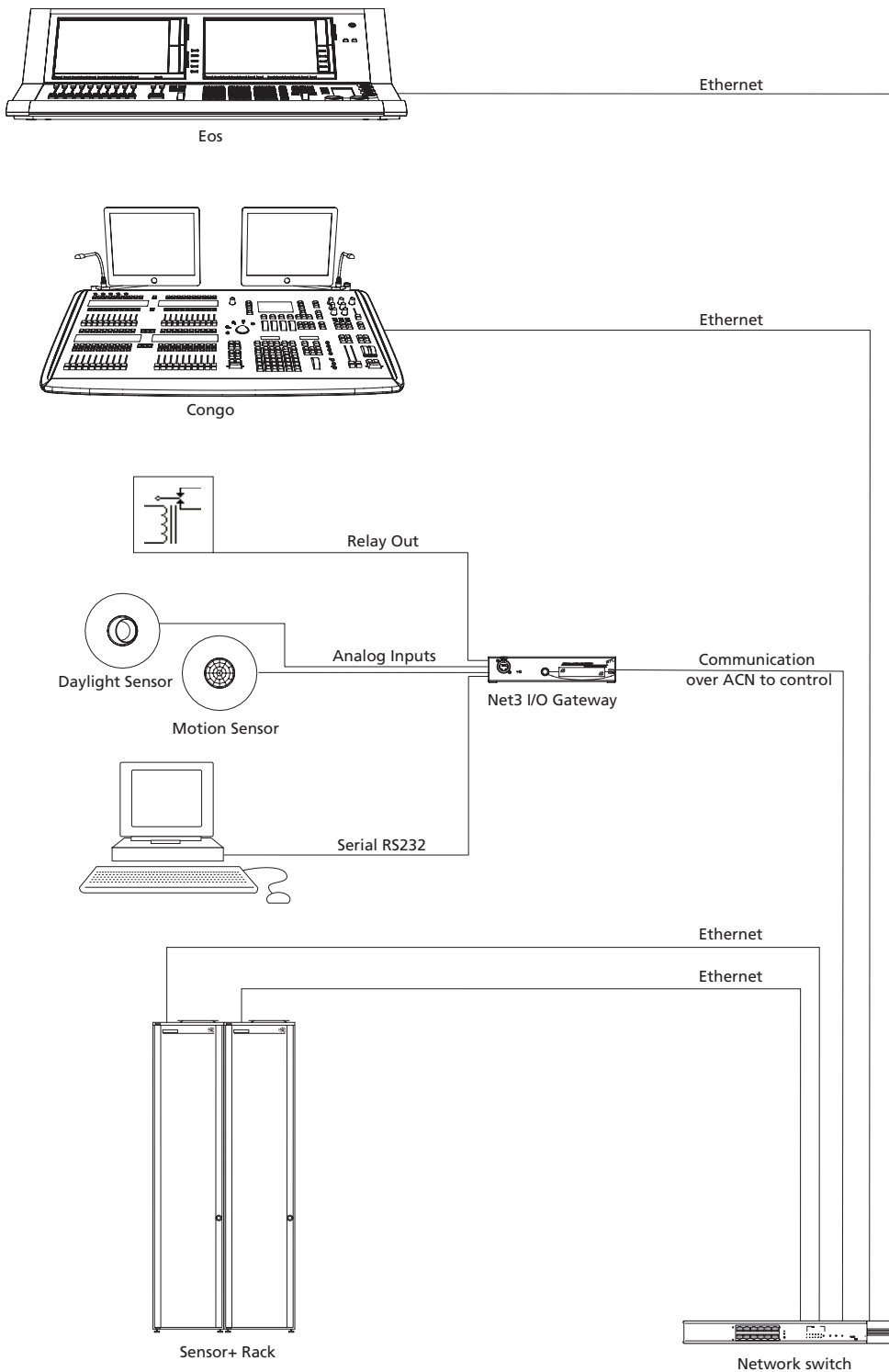
Analog In (DB25)



Example circuit for Analog In



TYPICAL SYSTEM RISER



PHYSICAL

Net3 I/O Gateway Dimensions

MODEL	HEIGHT		WIDTH		DEPTH	
	inches	mm	inches	mm	inches	mm
N3IOG	1.65	42	8.5	216	7.46	189

Net3 I/O Gateway Weight

MODEL	WEIGHT		SHIPPING WEIGHT	
	lbs	kgs	lbs	kgs
N3IOG	5.5	2.5	8	3.6

Net3 Gateway Accessories

MODEL	WEIGHT		SHIPPING WEIGHT	
	lbs	kgs	lbs	kgs
N3GA-PS	0.5	0.2	1	0.5
N3GA-RM	1.5	0.7	2	0.9
N3GA-HBU	0.8	0.4	1	0.5

