PROJECT

LOCATION

TANDEM3

Interior/Exterior Lighting Control System

(RT3-16-1-U-B shown)

APPLICATIONS

- Schools
- Universities
- Warehouses
- Commercial Offices
- Lobbies
- High Rise
- Parking Lots
- Retail Outlets

FEATURES

- Up to 48 relays per enclosure (increments of 8)
- Up to 48 Dimming Outputs for single enclosure (0-10V)
- Up to 192 CANbus digital switches
- Up to 48 inputs for switches, occ sensors and other dry-contact inputs
- Up to 24 analog inputs for PLC Photosensors
- RS-485 Networking with multiple Tandem Panels
- Multiple enclosure sizes and types available
- Optional frame available for flush mounting (ordered separately)
- Graphic interface with integral keypad
- Highly reliable 20A mechanically latching relays
- Multiple scheduling options – Normal, Astro, Open/Close
- Holiday schedule and daylight savings time functions
- USBA port for data storage/update
- USBC port for direct connection to PC
- BACnet IP / MSTP compatible
- Remote network LAN/WAN access available
- Integrated 24VDC power supply

DESCRIPTION

Tandem3 is a feature-rich, all-in-one lighting control system that provides up to 48 relays (increments of 8) in a single enclosure and is available in standard NEMA1 and options for NEMA 3R and NEMA 4X and flush-mount kits. Ideal for contractors looking for fast and efficient installation of a reliable, robust, and scalable lighting control system right off-the-shelf, Tandem's baseline models include many advanced features present only in more advanced systems.

Designed to minimize button pushes and produce quicker and easier start-ups (with or without factory support). Tandem3 provides pre-loaded profiles for system devices.

It's also scalable from one to multiple networked panels. External networking via BACnet or LAN/WAN remote access via standard Ethernet are also available. The Tandem3 can be programmed directly from the integral keypad and LCD screen or remotely from a laptop using PLC Designer3 software.

The many features of Tandem3 and relative ease of programming provide an effective, off-the-shelf solution for almost any lighting control application from simple to complex.

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TECHNICAL DATA

Input Power:	120/277 VAC
Relay Type: Relay Load:	SPST latching with manual override lever 20A, 4,800W max (@ 277VAC)
Switch Type: Switch Inputs:	Up to 48 Dry Contacts monitored by 24VDC SWPB Momentary Pushbutton OCS Series Occupancy Sensors Other inputs such as fire safety, security signals
Analog Inputs: Analog Outputs:	Up to 24 selectable channels CES Series Photosensors (0-10VDC), 500 ft max
Digital Switch Type: Digital Switch Addresses:	CANbus Up to 32 switch stations (192 button addresses)
Communication:	RS-485 (4,000 ft max) BACnet IP/MSTP (4,000 ft max) Ethernet (330 ft max)
Local Overrides:	Manual/Auto Override Switch, Relay swtich and bat
Operating Temperature:	32 - 125°F (0 - 52°C)
Compliance:	UL508A RoHS Can be used to meet the requirements of California Title 24
NEMA1 Enclosures:	8-Relay - 12"H x 12"W x 4.25" D 16-Relay - 21"H x 12"W x 4.25"D 24 & 32-Relay - 24"H x 20"W x 4.25"D 40 & 48-Relay 33"H x 20"W x 4.25"D
Flush-Mount Kit:	1" wide on all sides (ordered separately)

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ETL LISTED
CONFORMS TO
ANSI/UL 508A
CERTIFIED TO
CAN/CSA STD C22.2 NO. 14-M91

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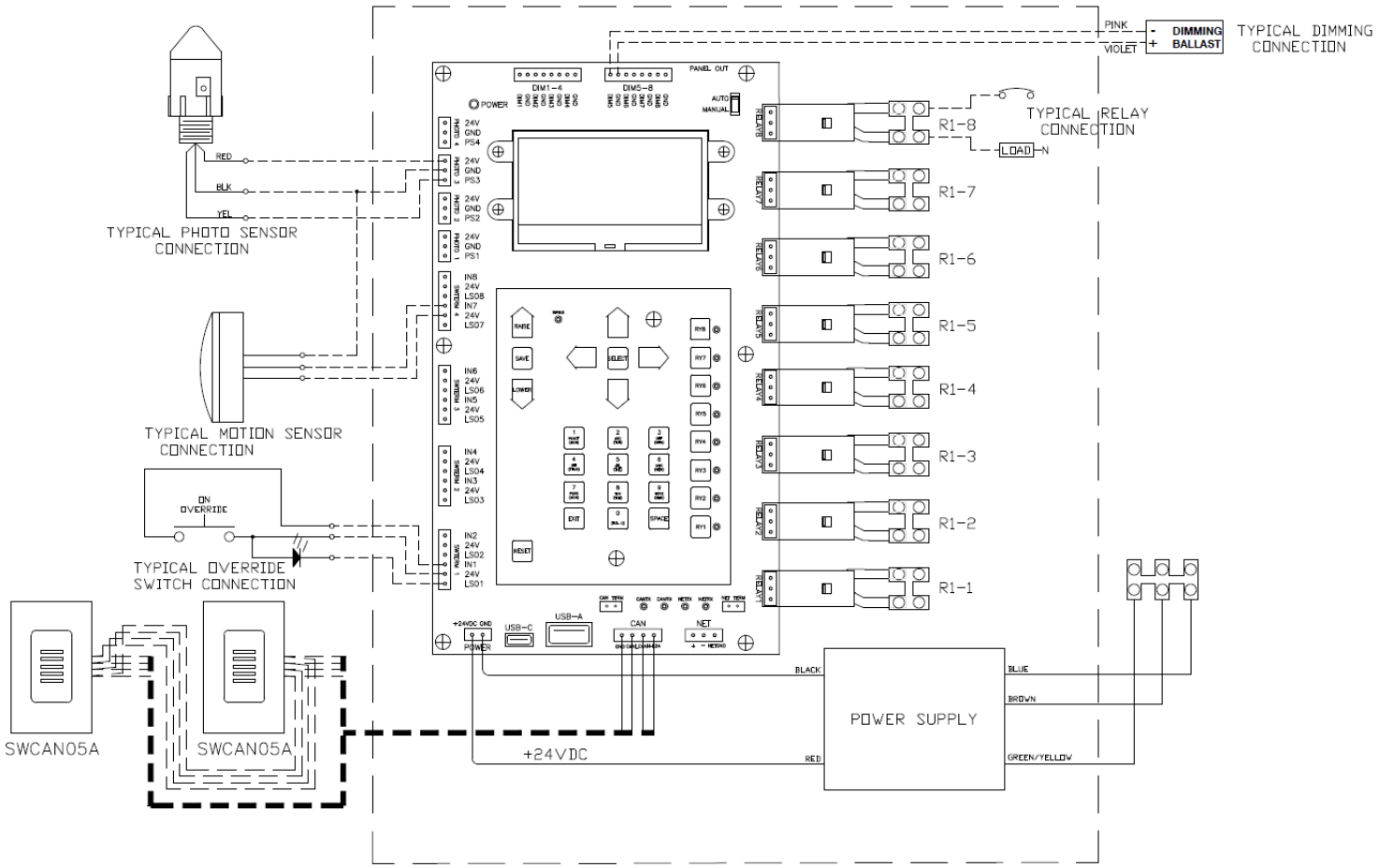
ONE-LINE DIAGRAM



NET port can be used to interface with an optional PLC Multipoint BACnet or Ethernet devices.

ORDERING INFORMATION

TANDEM3 PANEL

SAMPLE MODEL # RT3-16-1-U-B

	# OF RELAYS	ENCLOSURE		INPUT VOLTAGE		NETWORKING	
RT3	-08 -16 -24 -32 -40 -48	NEMA 1 NEMA 1X (Expanded Enclosure) NEMA 3R NEMA 4X	-1 -1X -3R -4X	Universal	-U	LAN/WAN ACCES BACnet	-E -B

FLUSH MOUNT KIT

Order as a separate line item. Do not append to the Tandem3 panel part number.

FMK-08 (8-RELAY)
FMK-16 (16-RELAY)
FMK-24/32 (24-RELAY)
FMK-24/32 (32 RELAY)
FMK-40/48 (40-RELAY)
FMK-40/48 (48-RELAY)

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