**DATASHEET**

# *PCS TRIO™*
# Triple Single Pole Relay Module (RRR)

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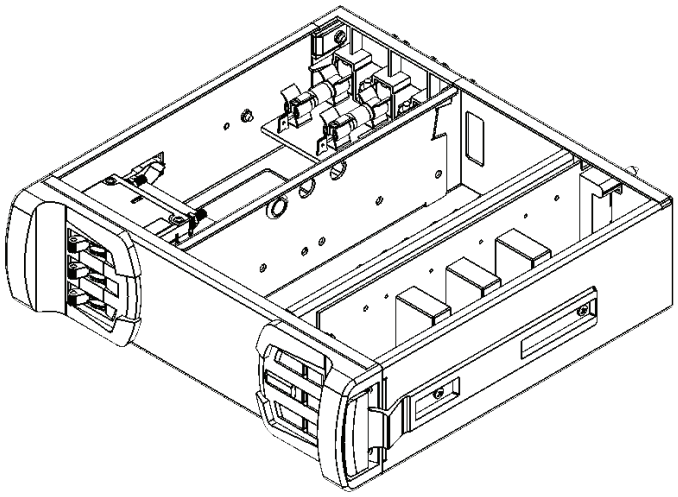

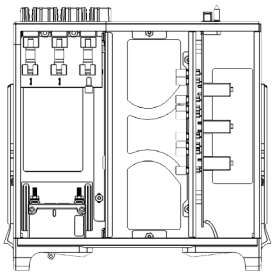

### *PCS TRIO™*

– Revolutionary new panel merges the power regulation of LEDs, moving lights and incandescents into a single unit

– Significant convenience and cost-efficiency is achieved through reductions in the installation of cabling and conduit

– Patent-pending bussing design provides all phases of power at each module location

**Catalog Number:**
*PCS-A-MD-RRR*

**General Information:**
The Triple Single Pole Relay Module is responsible for the switching of three 20 Amp 120 Volt AC power circuits.

PCS TRIO™ represents a revolution in power management by controlling power to Incandescent Loads, LEDs, Moving Lights and other applicable equipment. The patent pending design of the PCS TRIO™ power architecture enables power control over the widest lighting schedule possible in a single panel.

See additional materials for detailed information.

Triple Single Pole Relay Modules are fully compatible with the entirety of the Lex Products PCS TRIO™ Module Chamber series of power control products.

**Markets Served:**
Entertainment, Architectural

**Related Items**

| Model | Description |
|---|---|
| **Modules** | |
| **PCS-A-MD-R2R** | A-Series Module-(1) Single Pole Relay 120V 20A / (1) Double Pole Relay 240V 20A |
| **PCS-A-MD-D2R** | A-Series Module-(1) SCR Dimmer 120V 20A / (1) Double Pole Relay 240V 20A |
| **PCS-A-MD-DRR** | A-Series Module-(1) SCR Dimmer 120V 20A / (2) Single Pole Relays 120V 20A |
| **PCS-A-MD-DDD** | A-Series Module-Triple SCR Dimmers 120V 20A |
| **PCS-A-MD-PPP** | A-Series Module-Plenum |
| **Chamber Controller** | |
| **PCS-I-CC** | Chamber Controller Module |
| **Module Chambers** | |
| **PCS-I-A-MC-04** | Installation A-Series Module Chamber (4) Module |
| **PCS-I-A-MC-08** | Installation A-Series Module Chamber (8) Module |
| **PCS-I-A-MC-16** | Installation A-Series Module Chamber (16) Module |

See individual datasheets for details

**DATASHEET**

# PCS TRIO™
# Triple Single Pole Relay Module (RRR)

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## Mechanical

- Each Triple Single Pole Relay Module are labeled on its face as 'RRR' indicating **R**elay/**R**elay/**R**elay.
- Triple Single Pole Relay Modules ship fully factory wired and ready for installation.
- Module components are housed in removable chassis comprised of 14-gauge powder-coated steel.
- The face of the module features dual molded grips for module insertion/removal and circuit breaker handles.
- Right-side molded grip incorporates LED indicators displaying individual circuit status.
- The rear of the module includes self-aligning power and communication connections to ensure integrity of contact.
- The left and right sides possess guides for accurate alignment of power and communication connections as well as molded spring clips for module retention. Guides also possess copper paddles to ensure proper grounding.
- Modules may be inserted and removed from PCS TRIO™ Module Chambers without the use of tools.
- Modules function without noticeable affect within an ambient temperature range of 32° F to 104° F (0° C to 40° C).

## Electrical

- Triple Single Pole Relay Modules contain three (3) individually controlled, electrically separated and electronically addressable circuits.
- Each circuit is rated to operate at a nominal voltage range of 208Y/120 VAC 3-phase, 4-wire plus ground or 240/120 VAC single phase, 2 wire plus ground at a nominal frequency of 60Hz.
- Relay circuits are capable of operating within a range of 90 to 250 VAC at 50 to 65Hz.
- Each circuit is protected by a branch-rated, hydraulic-magnetic circuit breaker with a 10,000 AIC surge and 100% trip rating.
  - The circuit breaker is rated for tungsten loads having an inrush rating of no less than 12 times normal current.
- Failure of an individual circuit does not affect the operation of the remaining circuits.
- Each circuit is rated to 20 Amps at 1.5 HP.

## Operation

- Single Pole Relay circuits utilize mechanically latching, open-air type relays rated for 500,000 cycles.
- Relays maintain last state (open or closed) until signaled or manually manipulated.
- Relay circuits possess zero-cross detection for relay trigger timing.
- Relays are mounted to a vertical PCB to increase heat dissipation.
- Stacked modules within a Module Chamber utilize a 'plenum' effect to maximize cooling via convection.
- Individual modules possess over-temperature sensing.

## Recognition

- Triple Single Pole Relay Modules are cULus Listed.

| Module | Height | | Width | | Depth | | Weight | |
|---|---|---|---|---|---|---|---|---|
| PCS-A-MD-RRR | 3.05" | 7.75 cm | 11.60" | 29.46 cm | 11.55" | 29.34 cm | 6.00 lbs. | 2.72 kg |

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**DATASHEET**

# *PCS TRIO™*
# Single Pole Relay / Double Pole Relay Module (R2R)

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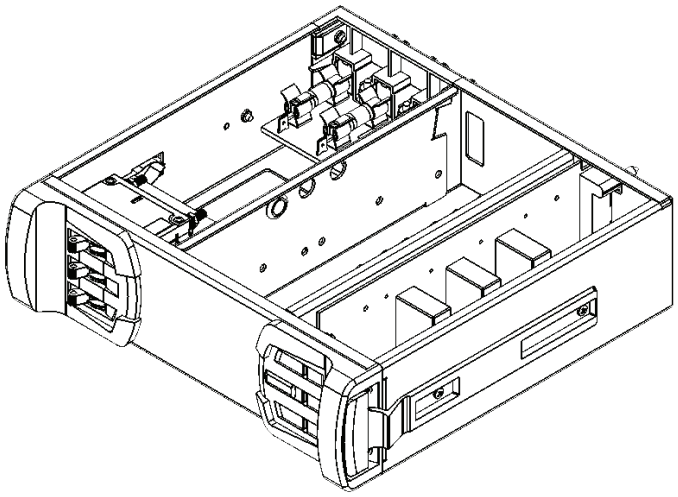

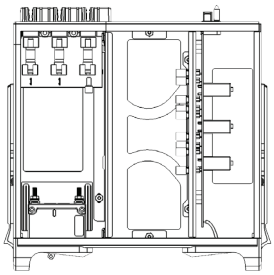

### *PCS TRIO™*

– Revolutionary new panel merges the power regulation of LEDs, moving lights and incandescents into a single unit

– Significant convenience and cost-efficiency is achieved through reductions in the installation of cabling and conduit

– Patent-pending bussing design provides all phases of power at each module location

**Catalog Number:**
*PCS-A-MD-R2R*

**General Information:**
The Single Pole Relay/Double Pole Relay Module is responsible for the switching of one (1) 20A 120 VAC AC power circuit and the switching of one (1) 20A 240 VAC AC power circuit.

PCS TRIO™ represents a revolution in power management by controlling power to Incandescent Loads, LEDs, Moving Lights and other applicable equipment. The patent pending design of the PCS TRIO™ power architecture enables power control over the widest lighting schedule possible in a single panel.

See additional materials for detailed information.

Single Pole Relay/Double Pole Relay Modules are fully compatible with the entirety of the Lex Products PCS TRIO™ Module Chamber series of power control products.

**Markets Served:**
Entertainment, Architectural

**Related Items**

| Model | Description |
|---|---|
| **Modules** | |
| **PCS-A-MD-RRR** | A-Series Module-Triple Single Pole Relay |
| **PCS-A-MD-D2R** | A-Series Module-(1) SCR Dimmer 120V 20A / (1) Double Pole Relay 240V 20A |
| **PCS-A-MD-DRR** | A-Series Module-(1) SCR Dimmer 120V 20A / (2) Single Pole Relays 120V 20A |
| **PCS-A-MD-DDD** | A-Series Module-Triple SCR Dimmers 120V 20A |
| **PCS-A-MD-PPP** | A-Series Module-Plenum |
| **Chamber Controller** | |
| **PCS-I-CC** | Chamber Controller Module |
| **Module Chambers** | |
| **PCS-I-A-MC-04** | Installation A-Series Module Chamber (4) Module |
| **PCS-I-A-MC-08** | Installation A-Series Module Chamber (8) Module |
| **PCS-I-A-MC-16** | Installation A-Series Module Chamber (16) Module |

See individual datasheets for details

**DATASHEET**

# PCS TRIO™
# Single Pole Relay / Double Pole Relay Module (R2R)

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## Mechanical

- Each Single Pole Relay/Double Pole Relay module is labeled on its face as 'R2R' indicating Single Pole **R**elay/Double (**2**) Pole **R**elay.
- Single Pole Relay/Double Pole Relay Modules ship fully factory wired and ready for installation.
- Module components are housed in a removable chassis comprised of 14-gauge powder-coated steel.
- The face of the module features dual molded grips for module insertion/removal and circuit breaker handles.
- Right-side molded grip incorporates LED indicators displaying individual circuit status.
- The rear of the module includes self-aligning power and communication connections to ensure integrity of contact.
- The left and right sides possess guides for accurate alignment of power and communication connections as well as molded spring clips for module retention. Guides also possess copper paddles to ensure proper grounding.
- Modules may be inserted and removed from PCS TRIO™ Module Chambers without the use of tools.
- Modules function without noticeable affect within an ambient temperature range of 32° F to 104° F (0° C to 40° C).

## Electrical

- Single Pole Relay/Double Pole Relay modules contain two (2) individually controlled, electrically separate and electronically addressable circuits.
- Each relay circuit is rated to operate at a nominal voltage range of 208Y/120 VAC 3-phase, 4-wire plus ground or 240/120 VAC single phase, 2 wire plus ground at anominal frequency of 60Hz.
- Relay circuits shall be capable of operating within a range of 90 to 280 VAC at 50 to 65Hz.
- Single Pole Relay Circuit:
  - Each single pole relay circuit is rated to operate at a nominal voltage range of 208Y/120 VAC 3-phase, 4-wire plus ground or 240/120 VAC single phase, 2 wire plus ground at a nominal frequency of 60Hz.
  - Relay circuits shall be capable of operating within a range of 90 to 250 VAC at 50 to 65Hz.
- Double Pole Relay Circuit:
  - Each relay circuit is rated to operate at a nominal voltage range of 208Y/120 VAC 3-phase, 4-wire plus ground or 240/120 VAC single phase, 2 wire plus ground at a nominal frequency of 60Hz.
  - Relay circuits shall be capable of operating within a range of 90 to 250 VAC at 50 to 65Hz.
- Each circuit is protected by a branch-rated, hydraulic-magnetic circuit breaker with a 10,000 AIC surge and 100% trip rating.
  - The circuit breaker is rated for tungsten loads having an inrush rating of no less than 12 times normal current.
- Failure of an individual circuit does not affect the operation of the remaining circuits.
- Each circuit is be rated to 20 Amps at 1.5 HP.

## Operation

- Relay circuits utilize mechanically latching, open-air type relays rated for 500,000 cycles.
- Relays maintain last state (open or closed) until signaled or manually manipulated.
- Relay circuits possess zero-cross detection for relay trigger timing.
- Relays are mounted to a vertical PCB to increase heat dissipation.
- Stacked modules within a Module Chamber utilize a 'plenum' effect to maximize cooling via convection.
- Individual modules possess over-temperature sensing.

## Recognition

- Single Pole Relay/Double Pole Relay Modules are cULus Listed.

| Module | Height | | Width | | Depth | | Weight | |
|---|---|---|---|---|---|---|---|---|
| PCS-A-MD-R2R | 3.05" | 7.75 cm | 11.60" | 29.46 cm | 11.55" | 29.34 cm | 6.00 lbs. | 2.72 kg |

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**DATASHEET**

# *PCS TRIO™*
# Single Dimmer / Double Pole Relay Module (D2R)

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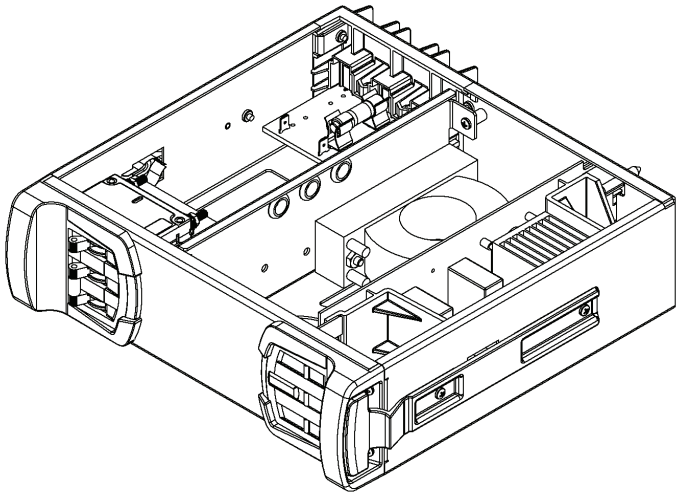

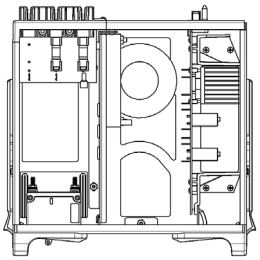

### *PCS TRIO™*

– Revolutionary new panel merges the power regulation of LEDs, moving lights and incandescents into a single unit

– Significant convenience and cost-efficiency is achieved through reductions in the installation of cabling and conduit

– Patent-pending bussing design provides all phases of power at each module location

### Catalog Number:
*PCS-A-MD-D2R*

### General Information:
The Single Dimmer/Double Pole Relay Module is responsible for voltage modulation regulation of one (1) 20A 120 VAC AC power circuit and the switching of one (1) 20A 240 VAC AC power circuit.

PCS TRIO™ represents a revolution in power management by controlling power to Incandescent Loads, LEDs, Moving Lights and other applicable equipment. The patent pending design of the PCS TRIO™ power architecture enables power control over the widest lighting schedule possible in a single panel.

See additional materials for detailed information.

Single Dimmer/Double Pole Relay Modules are fully compatible with the entirety of the Lex Products PCS TRIO™ Module Chamber series of power control products.

### Markets Served:
Entertainment, Architectural

### Related Items

| Model | Description |
|---|---|
| **Modules** | |
| **PCS-A-MD-RRR** | A-Series Module-Triple Single Pole Relay |
| **PCS-A-MD-R2R** | A-Series Module-(1) Single Pole Relay 120V 20A / (1) Double Pole Relay 240V 20A |
| **PCS-A-MD-DRR** | A-Series Module-(1) SCR Dimmer 120V 20A / (2) Single Pole Relays 120V 20A |
| **PCS-A-MD-DDD** | A-Series Module-Triple SCR Dimmers 120V 20A |
| **PCS-A-MD-PPP** | A-Series Module-Plenum |
| **Chamber Controller** | |
| **PCS-I-CC** | Chamber Controller Module |
| **Module Chambers** | |
| **PCS-I-A-MC-04** | Installation A-Series Module Chamber (4) Module |
| **PCS-I-A-MC-08** | Installation A-Series Module Chamber (8) Module |
| **PCS-I-A-MC-16** | Installation A-Series Module Chamber (16) Module |

See individual datasheets for details

**DATASHEET**

# PCS TRIO™
# Single Dimmer / Double Pole Relay Module (D2R)

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## Mechanical

- Each module is labeled on its face as 'D2R' indicating **D**immer/Double (**2**) Pole **R**elay.
- Single Dimmer/Double Pole Relay Modules ship fully factory wired and ready for installation.
- Module components are housed in a removable chassis comprised of 14-gauge powder-coated steel.
- The face of the module features dual molded grips for module insertion/removal and circuit breaker handles.
- Right-side molded grip incorporates LED indicators displaying individual circuit status.
- The rear of the module includes self-aligning power and communication connections to ensure integrity of contact.
- The left and right sides possess guides for accurate alignment of power and communication connections as well as molded spring clips for module retention. Guides also possess copper paddles to ensure proper grounding.
- Modules may be inserted and removed from PCS TRIO™ Module Chambers without the use of tools.
- Modules function without noticeable affect within an ambient temperature range of 32° F to 104° F (0° C to 40° C).

## Electrical

- Single Dimmer/Double Pole Relay Modules contain two (2) individually controlled, electrically separate and electronically addressable circuits.
- Dimmer Circuit:
  - Each dimmer circuit is rated to operate at a nominal voltage range of 208Y/120 VAC 3-phase, 4-wire plus ground at a nominal frequency of 60Hz.
  - Dimmer circuits shall be capable of operating within a range of 90 to 135 VAC at 50 to 65Hz.
  - Each circuit is dimmed using solid-state switching relays (SSRs) for forward-phasing sine-wave modification.
- Double Pole Relay Circuit:
  - Each relay circuit is rated to operate at a nominal voltage range of 208Y/120 VAC 3-phase, 4-wire plus ground or 240/120 VAC single phase, 2 wire plus ground at a nominal frequency of 60Hz.
  - Relay circuits are capable of operating within a range of 90 to 250 VAC at 50 to 65Hz.
- Each circuit is protected by a branch-rated, hydraulic-magnetic circuit breaker with a 10,000 AIC surge and 100% trip rating.
  - The circuit breaker is rated for tungsten loads having an inrush rating of no less than 12 times normal current.
- Failure of an individual circuit does not affect the operation of the remaining circuits.
- Each circuit is rated to 20 Amps with the relay circuit rated to 1.5 HP.

## Operation

- Dimmers shall be of the solid-state relay (SSR) type using silicon controlled rectifiers (SCR) arranged in an inverse parallel configuration.
- A toroidal filter assembly modifies the rate of current rise ("rise time") within that circuit and operate with a rise time of 350µs.
- Double Pole Relay circuits utilize mechanically latching, open-air type relays rated for 500,000 cycles.
- Relays maintain last state (open or closed) until signaled or manually manipulated.
- Dimmer and relay circuits possess zero-cross detection for trigger timing.
- The SCR dimmer and double pole relay are mounted to a vertical PCB to increase heat dissipation.
- Stacked modules within a Module Chamber utilize a 'plenum' effect to maximize cooling via convection.
- Individual modules possess over-temperature sensing.

## Recognition

- Single Dimmer / Double Pole Relay Modules are cULus Listed.

| Module | Height | | Width | | Depth | | Weight | |
|---|---|---|---|---|---|---|---|---|
| PCS-A-MD-D2R | 3.05" | 7.75 cm | 11.60" | 29.46 cm | 11.55" | 29.34 cm | 7.88 lbs. | 3.57 kg |

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**DATASHEET**

# PCS TRIO™
# Single Dimmer / Dual Single Pole Relays Module (DRR)

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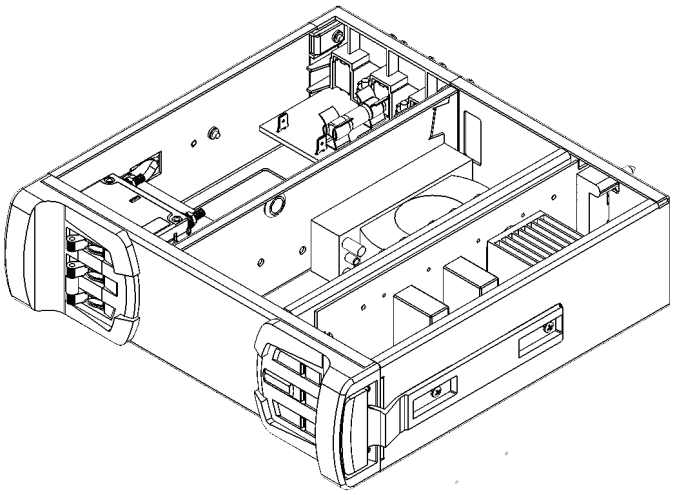

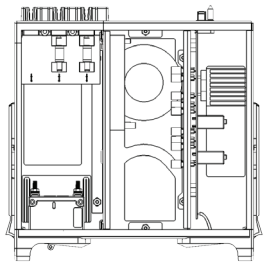

### *PCS TRIO™*

– Revolutionary new panel merges the power regulation of LEDs, moving lights and incandescents into a single unit

– Significant convenience and cost-efficiency is achieved through reductions in the installation of cabling and conduit

– Patent-pending bussing design provides all phases of power at each module location

**Catalog Number:**
*PCS-A-MD-DRR*

**General Information:**
The Single Dimmer/Dual Single Pole Relays Module is responsible for voltage modulation of one (1) 20A 120 VAC AC power circuit and the switching of two (2) 20A 120 VAC AC power circuits.

PCS TRIO™ represents a revolution in power management by controlling power to Incandescent Loads, LEDs, Moving Lights and other applicable equipment. The patent pending design of the PCS TRIO™ power architecture enables power control over the widest lighting schedule possible in a single panel.

See additional materials for detailed information.

Single Dimmer/Dual Single Pole Relays Modules are fully compatible with the entirety of the Lex Products PCS TRIO™ Module Chamber series of power control products.

**Markets Served:**
Entertainment, Architectural

**Related Items**

| Model | Description |
|---|---|
| **Modules** | |
| **PCS-A-MD-RRR** | A-Series Module-Triple Single Pole Relay |
| **PCS-A-MD-R2R** | A-Series Module-(1) Single Pole Relay 120V 20A / (1) Double Pole Relay 240V 20A |
| **PCS-A-MD-D2R** | A-Series Module-(1) SCR Dimmer 120V 20A / (1) Double Pole Relay 240V 20A |
| **PCS-A-MD-DDD** | A-Series Module-Triple SCR Dimmers 120V 20A |
| **PCS-A-MD-PPP** | A-Series Module-Plenum |
| **Chamber Controller** | |
| **PCS-I-CC** | Chamber Controller Module |
| **Module Chambers** | |
| **PCS-I-A-MC-04** | Installation A-Series Module Chamber (4) Module |
| **PCS-I-A-MC-08** | Installation A-Series Module Chamber (8) Module |
| **PCS-I-A-MC-16** | Installation A-Series Module Chamber (16) Module |

See individual datasheets for details

**DATASHEET**

# PCS TRIO™
# Single Dimmer / Dual Single Pole Relays Module (DRR)

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## Mechanical

- Each Single Dimmer / Dual Single Pole Relays Module is labeled on its face as 'DRR' indicating Single **D**immer/Single Pole **R**elay / Single Pole **R**elay.
- Single Dimmer/Dual Single Pole Relays Modules ship fully factory wired and ready for installation.
- Module components are housed in a removable chassis comprised of 14 gauge powder-coated steel.
- The face of the module features dual molded grips for module insertion/removal and circuit breaker handles.
- Right-side molded grip incorporates LED indicators displaying individual circuit status.
- The rear of the module includes self-aligning power and communication connections to ensure integrity of contact.
- The left and right sides possess guides for accurate alignment of power and communication connections as well as molded spring clips for module retention. Guides also possess copper paddles to ensure proper grounding.
- Modules may be inserted and removed from PCS TRIO™ Module Chambers without the use of tools.
- Modules function without noticeable affect within an ambient temperature range of 32° F to 104° F (0° C to 40° C).

## Electrical

- Single Dimmer/Dual Single Pole Relays modules contain three (3) individually controlled, electrically separate and electronically addressable circuits.
- Dimmer Circuit:
  - Each dimmer circuit is rated to operate at a nominal voltage range of 208Y/120 VAC 3-phase, 4-wire plus ground at a nominal frequency of 60Hz.
  - Dimmer circuits shall be capable of operating within a range of 90 to 135 VAC at 50 to 65Hz.
  - Each circuit is dimmed using solid-state switching relays (SSRs) for forward-phasing sine-wave modification.
- Single Pole Relay Circuits:
  - Each relay circuit is rated to operate at a nominal voltage range of 208Y/120 VAC 3-phase, 4-wire plus ground at a nominal frequency of 60Hz.
  - Relay circuits shall be capable of operating within a range of 90 to 250 VAC at 50 to 65Hz.
- Each circuit is protected by a branch-rated, hydraulic-magnetic circuit breaker with a 10,000 AIC surge and 100% trip rating.
  - The circuit breaker is rated for tungsten loads having an inrush rating of no less than 12 times normal current.
- Failure of an individual circuit does not affect the operation of the remaining circuits.
- Each circuit is rated to 20 Amps with the relay circuit rated to 1.5 HP.

## Operation

- Dimmers shall be of the solid-state relay (SSR) type using silicon controlled rectifiers (SCR) arranged in an inverse parallel configuration.
- A toroidal filter assembly modifies the rate of current rise ("rise time") within that circuit and operate with a rise time of 350µs.
- Single Pole Relay circuits utilize mechanically latching, open-air type relays rated for 500,000 cycles.
- Relays maintain last state (open or closed) until signaled or manually manipulated.
- Dimmer and relay circuits possess zero-cross detection for trigger timing.
- The SCR dimmer and single pole relays are mounted to a vertical PCB to increase heat dissipation.
- Stacked modules within a Module Chamber utilize a 'plenum' effect to maximize cooling via convection.
- Individual modules possess over-temperature sensing.

## Recognition

- Single Dimmer / Dual Single Pole Relays Modules are cULus Listed.

| Module | Height | | Width | | Depth | | Weight | |
|---|---|---|---|---|---|---|---|---|
| PCS-A-MD-DRR | 3.05" | 7.75 cm | 11.60" | 29.46 cm | 11.55" | 29.34 cm | 7.88 lbs. | 3.57 kg |

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**DATASHEET**

# *PCS TRIO™*
# Triple Dimmer Module (DDD)

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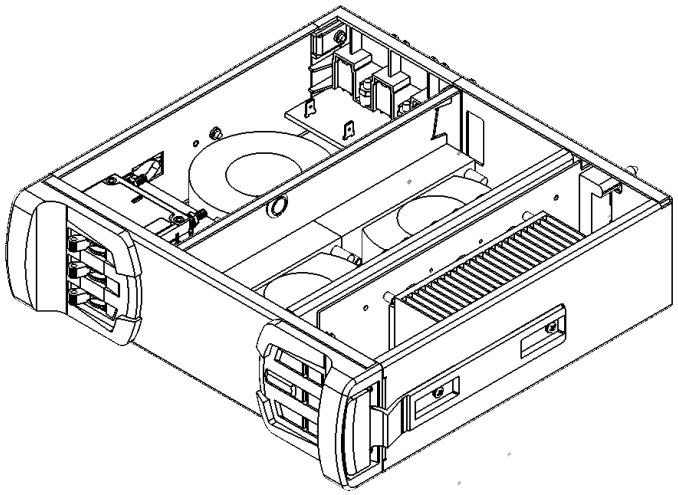

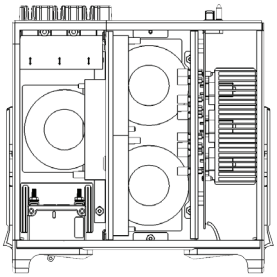

### *PCS TRIO™*

– Revolutionary new panel merges the power regulation of LEDs, moving lights and incandescents into a single unit

– Significant convenience and cost-efficiency is achieved through reductions in the installation of cabling and conduit

– Patent-pending bussing design provides all phases of power at each module location

**Catalog Number:**
*PCS-A-MD-DDD*

**General Information:**
The Triple Dimmer Module is responsible for the voltage modulation of three independent 20A 120 VAC AC power circuits.

PCS TRIO™ represents a revolution in power management by controlling power to Incandescent Loads, LEDs, Moving Lights and other applicable equipment. The patent pending design of the PCS TRIO™ power architecture enables power control over the widest lighting schedule possible in a single panel.

See additional materials for detailed information.

Triple Dimmer Modules are fully compatible with the entirety of the Lex Products PCS TRIO™ Module Chamber series of power control products.

**Markets Served:**
Entertainment, Architectural

**Related Items**

| Model | Description |
|---|---|
| **Modules** | |
| **PCS-A-MD-RRR** | A-Series Module-Triple Single Pole Relay |
| **PCS-A-MD-R2R** | A-Series Module-(1) Single Pole Relay 120V 20A / (1) Double Pole Relay 240V 20A |
| **PCS-A-MD-D2R** | A-Series Module-(1) SCR Dimmer 120V 20A / (1) Double Pole Relay 240V 20A |
| **PCS-A-MD-DRR** | A-Series Module-(1) SCR Dimmer 120V 20A / (2) Single Pole Relays 120V 20A |
| **PCS-A-MD-PPP** | A-Series Module-Plenum |
| **Chamber Controller** | |
| **PCS-I-CC** | Chamber Controller Module |
| **Module Chambers** | |
| **PCS-I-A-MC-04** | Installation A-Series Module Chamber (4) Module |
| **PCS-I-A-MC-08** | Installation A-Series Module Chamber (8) Module |
| **PCS-I-A-MC-16** | Installation A-Series Module Chamber (16) Module |

See individual datasheets for details

**DATASHEET**

# PCS TRIO™
# Triple Dimmer Module (DDD)

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## Mechanical

- Each Triple Dimmer Module is labeled on its face as 'DDD' indicating **D**immer/**D**immer/**D**immer.
- Triple Dimmer Modules ship fully factory wired and ready for installation.
- Module components are housed in a removable chassis comprised of 14-gauge powder-coated steel.
- The face of the module features dual molded grips for module insertion/removal and circuit breaker handles.
- Right-side molded grip incorporates LED indicators displaying individual circuit status.
- The rear of the module includes self-aligning power and communication connections to ensure integrity of contact.
- The left and right sides possess guides for accurate alignment of power and communication connections as well as molded spring clips for module retention. Guides also possess copper paddles to ensure proper grounding.
- Modules may be inserted and removed from PCS TRIO™ Module Chambers without the use of tools.
- Modules function without noticeable affect within an ambient temperature range of 32° F to 104° F (0° C to 40° C).

## Electrical

- Triple Dimmer Modules contain three (3) individually controlled, electrically separate and electronically addressable circuits.
- Each circuit is rated to operate at a nominal voltage range of 208Y/120 VAC 3-phase, 4-wire plus ground at a nominal frequency of 60Hz.
- Units are capable of operating within a range of 90 to 135 VAC at 50 to 65Hz.
- Each circuit is dimmed using solid-state switching relays (SSRs) for forward-phasing sine-wave modification.
- Each circuit is protected by a branch-rated, hydraulic-magnetic circuit breaker with a 10,000 AIC surge and 100% trip rating.
  - Each circuit breaker is rated for tungsten loads having an inrush rating of no less than 12 times normal current.
- Failure of an individual circuit does not affect the operation of the remaining circuits.
- Each circuit is rated to 20 Amps.

## Operation

- Dimmers shall be of the solid-state relay (SSR) type using silicon controlled rectifiers (SCR) arranged in an inverse parallel configuration.
- A toroidal filter assembly modifies the rate of current rise ("rise time") within that circuit and operate with a rise time of 350µs.
- The SCR dimmers are mounted to a vertical PCB to increase heat dissipation.
- Stacked modules within a Module Chamber utilize a 'plenum' effect to maximize cooling via convection
- Individual modules possess over-temperature sensing.

## Recognition

- Triple Dimmer Modules are cULus Listed.

| Module | Height | | Width | | Depth | | Weight | |
|---|---|---|---|---|---|---|---|---|
| PCS-A-MD-DDD | 3.05" | 7.75 cm | 11.60" | 29.46 cm | 11.55" | 29.34 cm | 11.63 lbs. | 5.27 kg |

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**DATASHEET**

# *PCS TRIO™*
# Plenum Module (PPP)

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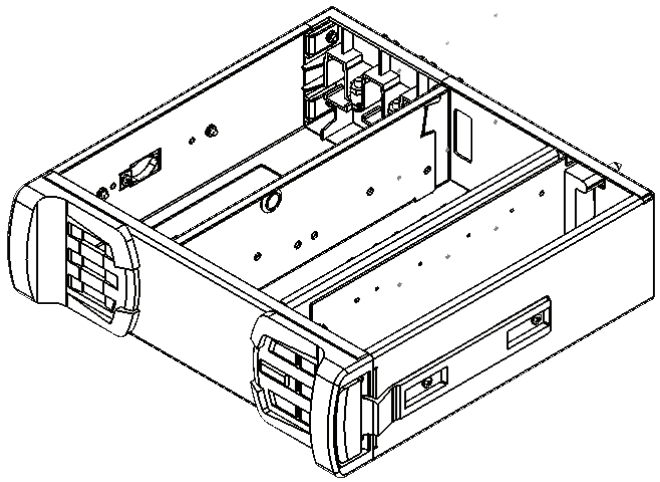

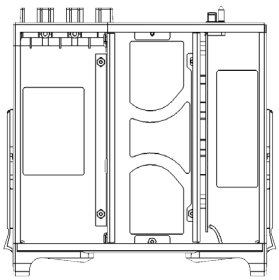

### *PCS TRIO™*

– Revolutionary new panel merges the power regulation of LEDs, moving lights and incandescents into a single unit

– Significant convenience and cost-efficiency is achieved through reductions in the installation of cabling and conduit

– Patent-pending bussing design provides all phases of power at each module location

### Catalog Number:
*PCS-A-MD-PPP*

### General Information:
The Plenum Module maintains the cooling and communication integrity of a Module Chamber by occupying slots where other modules are not required.

PCS TRIO™ represents a revolution in power management by controlling power to Incandescent Loads, LEDs, Moving Lights and other applicable equipment. The patent pending design of the PCS TRIO™ power architecture enables power control over the widest lighting schedule possible in a single panel.

See additional materials for detailed information.

Plenum Modules are fully compatible with the entirety of the Lex Products PCS TRIO™ Module Chamber series of power control products.

### Markets Served:
Entertainment, Architectural

### Related Items

| Model | Description |
|---|---|
| **Modules** | |
| **PCS-A-MD-RRR** | A-Series Module-Triple Single Pole Relay |
| **PCS-A-MD-R2R** | A-Series Module-(1) Single Pole Relay 120V 20A / (1) Double Pole Relay 240V 20A |
| **PCS-A-MD-D2R** | A-Series Module-(1) SCR Dimmer 120V 20A / (1) Double Pole Relay 240V 20A |
| **PCS-A-MD-DRR** | A-Series Module-(1) SCR Dimmer 120V 20A / (2) Single Pole Relays 120V 20A |
| **PCS-A-MD-DDD** | A-Series Module-Triple SCR Dimmers 120V 20A |
| **Chamber Controller** | |
| **PCS-I-CC** | Chamber Controller Module |
| **Module Chambers** | |
| **PCS-I-A-MC-04** | Installation A-Series Module Chamber (4) Module |
| **PCS-I-A-MC-08** | Installation A-Series Module Chamber (8) Module |
| **PCS-I-A-MC-16** | Installation A-Series Module Chamber (16) Module |

See individual datasheets for details

**DATASHEET**

# PCS TRIO™
# Plenum Module (PPP)

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## Mechanical

- Each module is labeled on its face as 'PPP' indicating **P**lenum/**P**lenum/**P**lenum.
- Plenum modules ship fully factory wired and ready for installation.
- Module components are housed in removable chassis comprised of 14 gauge powder-coated steel.
- The face of the module features dual molded grips for module insertion/removal.
- The rear of the module includes self-aligning communication connections to ensure integrity of contact.
- The left and right sides possess guides for accurate alignment of communication connections as well as molded spring clips for module retention. Guides also possess copper paddles to ensure proper grounding.
- Modules may be inserted and removed from PCS TRIO™ Module Chambers without the use of tools.
- Modules function without noticeable affect within an ambient temperature range of 32° F to 104° F (0° C to 40° C).

## Recognition

- Plenum Modules are cULus Listed.

| Module | Height | | Width | | Depth | | Weight | |
|---|---|---|---|---|---|---|---|---|
| PCS-A-MD-PPP | 3.05" | 7.75 cm | 11.60" | 29.46 cm | 11.55" | 29.34 cm | 4.66 lbs. | 2.10 kg |

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