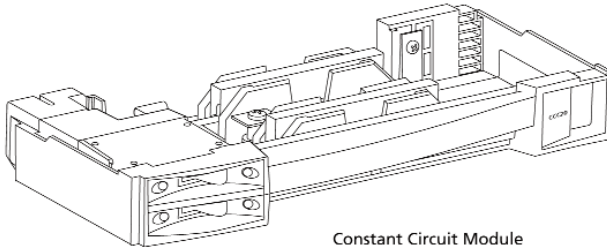


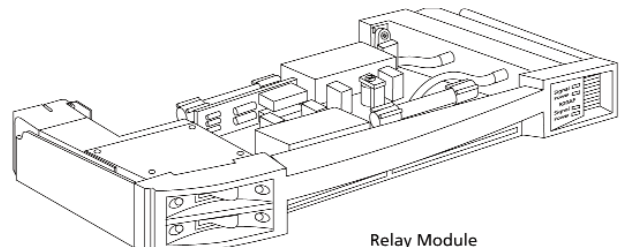
# Relay and Constant Power Modules

CE 230/240V

Sensor+ CE Non Dim Series



Constant Circuit Module



Relay Module

## GENERAL INFORMATION

The Relay Module is a dual, plug in mechanical relay assembly for use in Sensor+ CE Series modular dimmer rack enclosures. Each Relay Module provides two electrically held relays, in the same form factor as standard dimmer modules. This enables designers to mix and match dimmer and relays for control of diverse loads. Ideal for control of non-dimmable load types such as HID lamps. Standard Relay Modules provide cost-effective switching while Advanced Features Relay Modules enable dimmer-specific feedback of load circuit data while performing switching in AF-capable Sensor+ CE dimmer enclosures.

The Constant Circuit Module is a dual, plug in assembly for use in Sensor+ CE Series modular dimmer rack enclosures. The CC Module distributes power with overcurrent protection from the dimmer rack enclosure to non dimmed loads, typically motors, backup and emergency systems or auxilliary power distribution panels.

### RELAY APPLICATIONS

- High Intensity Discharge ballasts (Metal Halide and High Pressure Sodium)
- Non-dimmed On/Off loads
- Motors
- Power for fans and standard outlets
- Moving lights, fog machines and other powered effects

### CONSTANT CIRCUIT APPLICATIONS

- Devices requiring constant power
- Motors
- Backup and Emergency systems
- Auxilliary power distribution panels

### RELAY FEATURES

- Level-activated mechanical relays
- Two circuits per module
- High-density modular assembly
- Die-cast aluminium chassis
- Fully magnetic circuit breaker

### CONSTANT CIRCUIT FEATURES

- Two circuits per module
- Does not respond to control signals
- High-density modular assembly
- Die-cast aluminium chassis
- Fully magnetic circuit breaker

### GENERAL

- 100,000A Short Circuit Current Rating (SCCR)
- CE compliant

## ORDERING INFORMATION

### Sensor+ CE 230V Relay Modules

PART NO.	DESCRIPTION
7070A1071	2 x 1.3kW SP AF Relay Module ER6AF*
7070A1069	2 x 1.3kW ND AF Relay Module ER6AFN
7070A1072	2 x 2.3kW SP AF Relay Module ER10AF*
7070A1070	2 x 2.3kW ND AF Relay Module ER10AFN
7070A1060	2 x 3kW SP AF Relay Module ER15AF*
7070A1052	2 x 3kW ND AF Relay Module ER15AFN
7070A1051	2 x 3kW ND/RCD AF Relay Module 30mA ER15AFR
7070A1061	2 x 5kW SP AF Relay Module ER25AF*
7070A1052	2 x 5kW ND AF Relay Module ER25AFN
7070A1066	2 x 5kW ND/RCD AF Relay Module 30mA ER25AFR

### Sensor+ CE 230V Constant Circuit Modules

PART NO.	DESCRIPTION
7070A1077	2 x 6A SP Constant Circuit module ECC6*
7070A1079	2 x 6A ND Constant Circuit module ECC6N
7070A1078	2 x 10A SP Constant Circuit module ECC10*
7070A1080	2 x 10A ND Constant Circuit module ECC10N
7070A1046	2 x 15A SP Constant Circuit module ECC15*
7070A1047	2 x 25A SP Constant Circuit module ECC25*

### Accessories

PART NO.	DESCRIPTION
7071A3085	*Single Neutral Jumper (one needed per SP module)

### Compatible Rack Enclosures

MODEL	DESCRIPTION
ESR Std.	12, 24, 36 and 48 Module racks available
ESR Adv	12, 24, 36 and 48 Module racks available

NOTE: For ESR rack details, please see Sensor+ CE ESR rack datasheet

# Relay Module

## Special Purpose Series

### SPECIFICATIONS

#### GENERAL

- All modules designed for 100% duty cycle operation

#### PHYSICAL

- Modular plug-in assemblies
- Cast aluminum chassis, finished with textured epoxy paint
- Keyed to prevent insertion in inappropriately rated rack positions

#### CIRCUIT BREAKERS

- Fully magnetic to eliminate nuisance tripping
- 20x inrush current rating
- 125%, 10-120 seconds, must-trip rating
- Rated for 100% switching duty applications

#### ELECTRICAL RATINGS

- 100,000A Short Circuit Current Rating (SCCR)
- Modules withstand hot-patching of cold loads
- CC Modules has replacable fuse for short curcuit protection and fault current coordination
- CE compliant

#### RELAYS

- 15 or 20 amp, level-activated mechanical relay
  - Rated for 200,000 full load activations
  - Rated for 5 million no load activations
- R15/R15AF rated for 0.75HP at 13.8A
- R20/R20AF rated for 1.50HP at 20.0A
- Rated for 20A General Purpose, 10A Tungsten and 1.5 HP Motor Maximum

#### POWER DEVICE

- Sealed, patented assembly
- Standard modules have one control LED per circuit
- Advanced Features modules have one control LED and one output LED per circuit
- Integral bonded heatsink
- Advanced Features modules have built-in voltage and current sensors

#### ADVANCED FEATURES ERROR MESSAGES\*

- Load dropped below recorded value
- Load increased over recorded value
- SCR failed on/off
- Circuit breaker tripped
- Dimmer module removed
- Dimmer load absent

\*All AF modules support ETC's Advanced Features (AF) dimmer specific load reporting features when used in AF-equipped racks or packs

### PHYSICAL

#### Module Dimensions

MODEL	HEIGHT	WIDTH	DEPTH
	mm	mm	mm
All modules	38	300	127

#### Product Weights

MODEL	WEIGHT	SHIPPING WEIGHT
	kgs	kgs
Relays	1.2	1.8
Constant C	1.1	1.6

#### Maximum BTU Production per module

MODEL	BTUS	WATTS	EFFICIENCY
All modules	<10	<4	>99.0%

These values should be provided to a qualified HVAC design engineer, along with dimmer quantities, types and dimmer room dimensions, to calculate dimmer room air handling requirements.

Dimmer room HVAC systems must at all times maintain the specified ambient temperature **at the dimmer rack**. Dimming systems operating within 10°F of the upper or lower temperature limits must strictly follow installation and operation guidelines to operate reliably.

#### AVAILABLE FROM