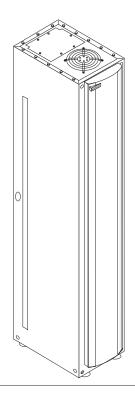




### 100V 120V





### GENERAL INFORMATION

Sensor+ dimming systems provide high density, professional features and exceptional reliability for lighting applications that require the best the entertainment industry can offer.

#### **APPLICATIONS**

- Professional and educational theatre
- Production studios
- Concert and performance halls
- Themed retail and dining
- Multi-use Convention Centers
- Houses of Worship

#### **FEATURES**

- High dimmer density
- Up to two 2.4kW dimmers per module
- 6, 12, 24, and 48 module racks available
- Rugged industrial construction
- Installation flexibility
- Adaptable modular design
- 100,000A Short Circuit Current Rating (SCCR)
- Advanced configuration editing built into rack
- Stores up to 128 presets in memory
- Direct Ethernet control signal input
- Two DMX512-A inputs
- Standard system and rack monitoring with diagnostic reporting
- Supports ETC Dimmer Doubling™

#### **ACCESSORIES**

- SmartLink® Button Stations and SmartLink TimeClock
- Dimmer Doubler
- Sound Suppression Hood
- Floor pedestal for 24-module rack
- Document holder

### ORDERING INFORMATION

### **Installation Racks**

MODEL	DESCRIPTION
SR48+	Sensor+ 48 Module Rack
SR24+	Sensor+ 24 Module Rack
SR12+	Sensor+ 12 Module Rack
SR6+	Sensor+ 6 Module Rack
SR24+1P	Sensor+ 24 Module Single Phase Rack
SR12+1P	Sensor+ 12 Module Single Phase Rack
SR6+1P	Sensor+ 6 Module Single Phase Rack

### **Rack Options\***

MODEL	DESCRIPTION
AT48	Amp-Trap fuse option for 48-module rack
AT24	Amp-Trap fuse option for 24-module rack
AT12	Amp-Trap fuse option for 12-module rack
BK48	Bus kit for 2 – 48-module racks
BK24	Bus kit for 2 – 24-module racks
BK12	Bus kit for 2 – 12-module racks
AUX30-48	30" Auxiliary Rack(s) for 48-module rack
AUX19-48	19" Auxiliary Rack(s) for 48-module rack
AUX19-24	19" Auxiliary Rack(s) for 24-module rack
AUX19-12	19" Auxiliary Rack(s) for 12-module rack

<sup>&</sup>quot;Vibration Reduction mounts available for all Sensor+ racks. Contact ETC for details. Note: Power feeds above 800A up to 2000A require addition of a 30" auxiliary rack.

### **Rack Accessories**

MODEL	DESCRIPTION
SSSh24-48	Sensor+ Sound Suppression Hood – large
SSSh6-12	Sensor+ Sound Suppression Hood – small
Pedestal	Floor pedestal for 24-module rack
DH	Document Holder

### **SmartLink Accessories**

MODEL	DESCRIPTION
S-LPB	SmartLink Power Board for Sensor+ Racks*
S-10005	SmartLink 5-Button Station*
S-10010	SmartLink 10-Button Station*

<sup>\*</sup>One SmartLink Power Board required for station support. S-LPB supports up to four stations.



Only one S-LPB may be enabled in a system.

# **Sensor+ Series**

#### SPECIFICATIONS

#### **GENERAL**

- Racks available in four sizes:
  - SR6+ 6 modules, 12 dimmers maximum
  - SR12+ 12 modules, 24 dimmers maximum
  - SR24+ 24 modules, 48 dimmers maximum
  - SR48+ 48 modules, 96 dimmers maximum
- Dual density (two dimmers per module), single density and half density dimmer modules available
- Operating temperature: 0-40°C / 32-104°F
  - 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.
- Relative humidity: 10-90% non-condensing
- All racks UL and cUL Listed
- UL924 Listed for Bypass operation

### MECHANICAL

- Rugged 16-gauge steel construction
- Fine-textured, scratch-resistant, epoxy paint
- SR6+ and SR12+ uses wall mount installation
- SR24+ can be wall or pedestal mounted
- SR48+ is floor mounted
- Top and bottom conduit access through removable panels (SR48+) or knockouts (SR6+, SR12+, and SR24+)
- No tools required for module removal or installation
- Keyed module slots prevent insertion of inappropriate module types
- Front access to all wiring and terminations
- Full height locking door
- Electrostatic air filter easily removed from door for periodic cleaning
- High efficiency cooling system with airflow sensor
- High visibility LED status beacon

#### **ELECTRICAL**

- SR6+, SR12+ and SR24+ accept:
  - Three phase 120/208 VAC
  - Single phase 120/240 VAC
- SR48+ accepts:
- Three phase 120/208 VAC
- Line feed frequencies from 47-63Hz
- Line feed voltage range is 91-139 VAC\*
- Load terminals accept up to #4 AWG (25mm²) wire
- Short Circuit Current Rating: 100,000A RMS symmetrical at 240VAC
- Auxiliary equipment racks and custom switchgear/distribution available (call ETC for details)
- \*Note: Suggested max main transformer tap 135V to allow for line fluxuation

#### **CONTROL ELECTRONICS**

- Sensor+ Control Electronics Module (CEM+)
- Single Ethernet control signal input
- Two DMX512-A inputs
- Standard diagnostic reporting via browser-based interface or DimStat™ software
- Supports Dimmer Doubling™
- Supports SmartLink® control of presets

### **OPTIONS**

- Advanced Features (AF) dimmer-specific load and diagnostic reporting
- Amp-Trap® fuses to allow feeding individual racks from oversize mains
- Bus kits available
- Vibration reduction kits available for all racks
- SmartLink Power Board
- SmartLink TimeClock

#### ADDITIONAL INFORMATION

### **Compatible Dimmer Modules**

SENSOR STANDARD MODULES			
MODEL	DESCRIPTION		
D15/D20	Dual 15A/20A Dimmer Module – 350µS		
D15E/D20E	Dual 15A/20A Dimmer Module – 500µS		
D50AF	Single 50A Dimmer Module – 500µS – AF		
D100AF*	Half 100A Dimmer Module – 500µS – AF		
SENSOR SPECIAL PURPOSE MODULES			
ELV10	Dual 10A Dimmer Module for electronic low voltage transformers		
D15FB/D20FB	Single 15A/20A Dimmer Module for two wire fluorescent with emergency battery backup		
D15F/D20F	Single 15A/20A Fluorescent Dimmer Module		
R15AF/R20AF	Dual 15A/20A Relay Module		
CC15/CC20	Dual 15A/20A Constant Circuit Breaker Module		
AFM	Air Flow Module		

<sup>\*</sup>Half-density modules use two module slots.

#### **Control Modules**

MODEL	DESCRIPTION	
CEM+	Control Electronics Module +	

#### **Load Wiring Lug Capacity**

CONNECTION	WIRE SIZE		
10A, 15A, 20A, and 50A lugs	4 AWG Max. (25mm²)		
100A lugs	2/0 Max.		

### **Primary Feed Lug Capacity**

CONNECTION	WIRE SIZE	FEED RATING
SR48+	Dual 600 kcmil – 2 AWG	800A*
SR24+	Dual 350 kcmil – 4 AWG	400A
SR12+	Dual 250 kcmil – 6 AWG	200A
SR6+	Single 2/0 – 14 AWG	100A

#### Sound Pressure Level (dBA)

MODEL	dBA @ 100	dBA @ 1000Hz (1kHz)**			
	WITHOUT	WITH SSSh***			
SR48+	37.0	30.9			
SR24+	40.2	34.0			
SR12+	41.8	33.8			
SR6+	26.0	21.4			

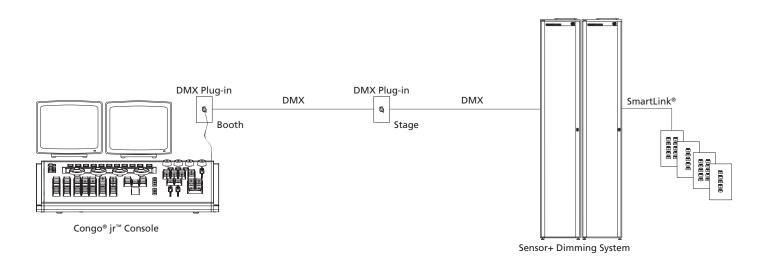
<sup>\*</sup>With addition of an AX48-30 rack and amp traps, feeder sizes can increase up to 2000A max. See Sensor Aux Bay Data sheet for more details.

<sup>\*\*</sup>dBA values for each Sensor rack measured at one meter. Visit <a href="www.etcconnect.com">www.etcconnect.com</a> for full spectrum dBA ratings.

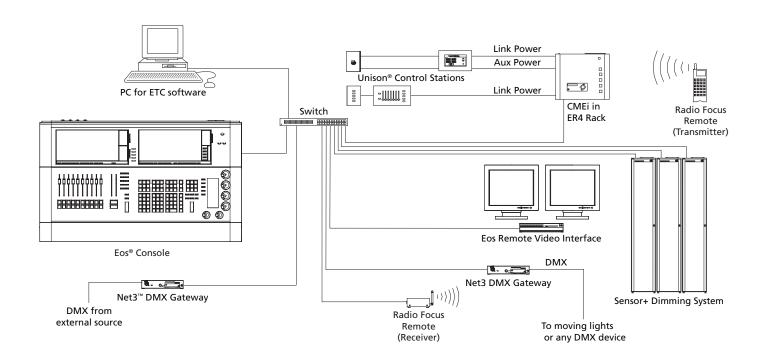
<sup>\*\*\*</sup>Sensor Sound Supression hood (SSSh)

# **Sensor+ Series**

### TYPICAL SYSTEM RISER



## TYPICAL NETWORK RISER



# Sensor+ Series

#### PHYSICAL

### **Empty Dimmer Rack Weights**

MODEL	WEI	GHT	SHIPPING WEIGHT		
	lbs	kgs	lbs	kgs	
SR48+	188	86	198	90	
SR48+ Door*	31	14	35	16	
SR24+	107	49	115	53	
SR24+ Door*	17	8	20	9	
SR12+	45	21	50	23	
SR12+ Door*	11	5	14	6.5	
SR6+ with Door	36	16	45	21	

### **Installation Rack Dimensions**

MODEL	HEIGHT		WIDTH		DEPTH	
	inches	mm	inches	mm	inches	mm
SR48+	83.1	2110	14.6	370	22.8	580
SR24+	45.8	1160	14.6	370	16.8	430
SR12+	25.8	660	14.6	370	13.3	340
SR6+	16.4	420	14.6	370	13.3	340

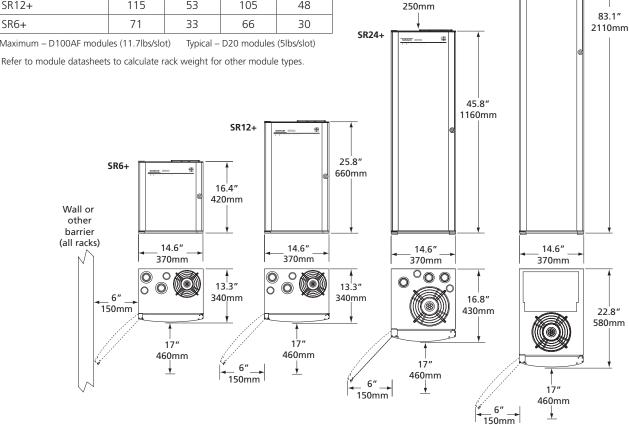
SR48+

All racks require minimum clearance above fan 10.0"

# **Full Dimmer Rack Weights**

MODEL	MAX. WEIGHT		TYPICAL WEIGHT	
	lbs kgs		lbs	kgs
SR48+	493	224	459	209
SR24+	261	119	244 111	
SR12+	115	53	105	48
SR6+	71	33	66	30

\*Maximum – D100AF modules (11.7lbs/slot)





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<sup>\*</sup>Rack doors ship separately.