

**GENERAL INFORMATION**

D15 and D20 modules provide cost-effective digital phase angle dimming for standard incandescent fixtures.

**APPLICATIONS** All Sensor® Installation Racks (except Delta)  
 All Sensor Touring Racks  
 All Sensor Portable Packs

**FEATURES** Two 1.8 or 2.4kW dimmers per module  
 350µS risetime toroidal filters standard version  
 500µS risetime toroidal filters enhanced version  
 Die-cast aluminum chassis  
 Tool-free installation and removal  
 Dual back-to-back SCRs for each circuit  
 Fully magnetic circuit breakers  
 100% duty cycle at full rating  
 Breakers will not derate over product life cycle  
 100k AIC rating  
 UL and cUL listed

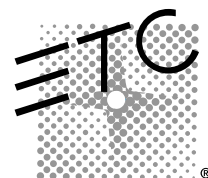
**ORDERING INFORMATION**

**Standard Sensor Dimmer Modules**

Model#	Description
D15	Dual 15 amp Dimmer Module with 350µS chokes
D20	Dual 20 amp Dimmer Module with 350µS chokes
D15E	Dual 15 amp Dimmer Module with 500µS chokes
D20E	Dual 20 amp Dimmer Module with 500µS chokes

**Compatible Systems**

Model#	Description
<b>Sensor Dimming Racks</b>	
SR6	6 slot Installation Rack(s)
SR12	12 slot Installation Rack(s)
SR24	24 slot Installation Rack(s)
SR48	48 slot Installation Rack(s)
<b>Sensor Portable Packs</b>	
SP6	6 slot Portable Pack with MPE module
SP12	12 slot Portable Pack with MPE module
<b>Sensor Touring Racks</b>	
SP24	24 slot Touring Rack
SP36	36 slot Touring Rack
SP48	48 slot Touring Rack



# 15-20 Amp Dimmer Modules

## Standard Dimmer Series

### SPECIFICATIONS

**DIMMER MODULES** Dimmers are UL and cUL listed for continuous duty at 100% of rated load

D15 – 1.8kW  
D20 – 2.4kW

Dimmer modules are plug-in, and may be replaced without tools

Cast aluminum chassis, finished with textured epoxy paint

Includes circuit breaker(s), toroidal filter(s), SCR modules, power and control connectors

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

**SCR ASSEMBLY**

Sealed, patented assembly

Field replaceable with screwdriver

Two back-to-back SCRs per circuit

One Control LED per circuit

4000V isolation between control and power components

Integral bonded heatsink

Integral temperature sensor

**CHOKES**

High quality 350µS, risetime\* toroidal filters

500µS risetime\* filters in the Enhanced version

**ELECTRICAL RATINGS**

100k AIC rating

Hot-patching: dimmers shall withstand hot-patching of cold incandescent loads up to the dimmer's full rating, without tripping

Rated for continuous operation at full load

\*Risetime measured at full load, at worst case firing angle (about 50%), from 10-90% of output wave form

### PHYSICAL

#### Module Weights

Model#	Weight		Shipping Weight	
	lbs	kgs	lbs	kgs
D15/20	5	2.3	6.9	3.1
D15E/D20E	5	2.3	6.9	3.1

#### Maximum BTU Production per module

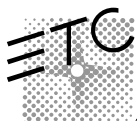
Model#	BTUs	Watts	Efficiency
D15	380	112	96.9%
D20	522	154	96.8%
D15E	474	140	96.1%
D20E	810	238	95.0%

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.

#### SCR Rating

Module	15/20 amp
Single cycle peak surge current	625 amp
Half cycle peak surge current	1620 amp
Transient over voltage	600V



### Electronic Theatre Controls

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Sensor® products protected by U.S. Patent Numbers: 5,323,088, 5,352,958, and 6,002,563 European Number: 0603333 German Number: 69203609, US and International Patents Pending