

GENERAL INFORMATION

Sensor® Fluorescent modules provide operating power and dimming control to three-wire electronic dimmer ballasts for fluorescent fixtures.

APPLICATIONS Three wire dimmed electronic fluorescent ballasts
 High density architectural dimming
 Themed retail and casino

FEATURES Electronic trim-pot function matches ballast dimming range
 Die-cast aluminum chassis
 Tool-free installation and removal
 Fully magnetic circuit breakers
 100% duty cycle at full rating
 Breakers will not derate over product life cycle
 UL and cUL listed

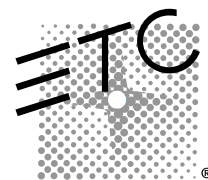
ORDERING INFORMATION

Fluorescent Modules

Model#	Description
D15F	15A module - control and switched power circuits
D20F	20A module - control and switched power circuits

Compatible Systems

Model#	Description
Sensor Dimming Racks	
SR6	6 slot Installation Rack
SR12	12 slot Installation Rack
SR24	24 slot Installation Rack
SR48	48 slot Installation Rack
SR6AF	6 slot Advanced Features Installation Rack
SR12AF	12 slot Advanced Features Installation Rack
SR24AF	24 slot Advanced Features Installation Rack
SR48AF	48 slot Advanced Features Installation Rack
Sensor Touring Racks	
SP24	24 slot Touring Rack
SP36	36 slot Touring Rack
SP48	48 slot Touring Rack



Fluorescent Dimmer Modules

Special Purpose Series

SPECIFICATIONS

- DIMMER MODULES** Dimmers are UL and cUL listed for continuous duty at 100% of rated load
 D15F – 1.8kW
 D20F – 2.4kW
- PHYSICAL** Fluorescent modules are plug-in, and may be replaced without tools
 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
- SCR ASSEMBLY** Sealed, patented assembly
 Field replaceable with screwdriver
 Two back-to-back SCRs per circuit
 One Control and Output LED per circuit
 4000V isolation between control and power components
 Integral bonded heatsink
 Integral temperature sensor
 Built-in voltage and amperage sensors
- DIMMER RANGE** Uses Sensor™ Control Electronics Module's digital trim-pot function to set dimming range
 Check fluorescent ballast for dimming range

PHYSICAL

Module Weights

Model	Weight		Shipping Weight	
	lbs	kgs	lbs	kgs
D15F/D20F	2.4	1.1	3.3	1.5

Maximum BTU Production per module

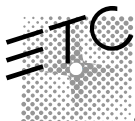
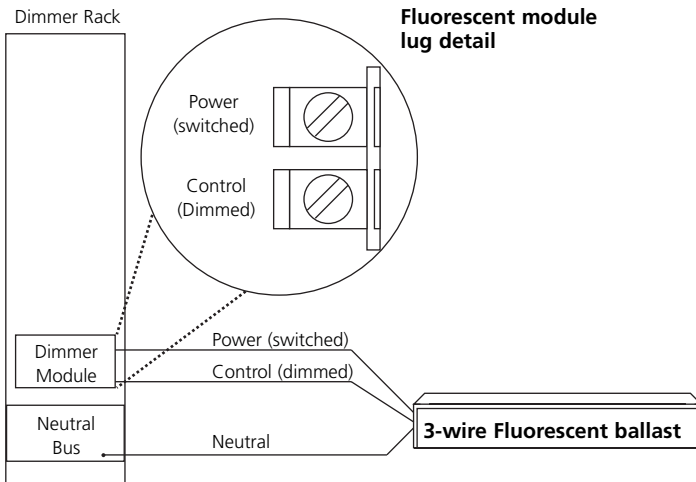
Model	BTUs	Watts	Efficiency
D15F/D20F	<10	<4	>99.0%

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.

SCR Rating

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



Electronic Theatre Controls

International • 3030 Laura Lane, P.O. Box 620979, Middleton, WI 53562-0979 • Tel: (+1) 608 831 4116 • Fax: (+1) 608 836 1736 • Toll free: 800 688 4116 • Toll free fax: 800 555 8912

Europe • 5 Victoria Industrial Estate, Victoria Road, London W3 6UU • Tel: +44 (0)20 8896 1000 • Fax: +44 (0)20 8896 2000

Asia • Room 605-606, Tower III Enterprise Square • 9 Sheung Yuet Road, Kowloon Bay • Kowloon, Hong Kong • Tel: (+852) 2799 1220 • Fax: (+852) 2799 9325

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