

SPECIFICATIONSHEET: FH1-DUAL-750CFL

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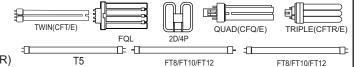
Project	Type	Model #	_
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Remarks

Description: Firehorse Emergency Ballast for use with or without AC ballast designed to add emergency lighting when main AC power is interrupted for minimum of 90 minutes at reduced illumination. The e ergency ballast is not intended for general purpose lighting applications.

This Ballast Will Operate Following Lamps.

ONE 42W 4-PIN CFL OR ONE OR TWO 9W TO 32W 4-PIN CFL ORONEOR TWO 18WTO 40W 4-PIN LONG COMPACT OR ONE OR TWO 6WTO 28W T8/T10/T12 OR ONE 8W TO 21W T5 FLUORESCENT LAMPSAT REDUCED ILLUMINATION (ALL WITHOUT INTEGRAL STARTER)



ELECTRICAL DATA

THEFT WOLF HOOV OF SETTING HOOV OF	
	Hz
AP PROVAL CLASS	UL - LISTED FOR DAMP LOCATION - FACTORY OR FIELD INSTALLATION
CODE COMPLIANCE	MEET S OR EXCEEDS UL924 - N .E.C. AND LSC EMERGENCY O PERATING REQUIREMENT
AC INPUT PO W ER RATING	3.5 W ATTS
AC INPUT CURRENT	280mA
BA LLAST TYPE	EM ERGENCY
M INIM UM ILLUM INATION TIM E	90 M INUTES
RECHARGE TIME	24 HOURS
M AXIM UM INITIAL LIG HT O UTPUT	750 LUMENS
BATTERY TYPE	HIGH TEMP ERATURE RECHARGABLE NI-CAD - MAINTENÂNCE FREE
TEM PERATURE RATING (AMBIENT)	0°C TO 50°C (32°F TO 122°F)
BATTERY VOLTAGE	3.6Vdc
BATTERY CHARGING CURRENT	280mA Max.
BATTERY RATING	14.4W h
M INIM UM BATTERY RATING	4.0Ah
TEST S W ITCH	SINGLE POLE
CHARGING INDICATO R LIGHT	LED
CASE TYPE	VANDAL RESISTANT - SEALED
CASE CONSTRUCTION	PAINTED STEEL
CASE PROFILE	9.4"L X 2.4"W X 1.5"H X 8.9" MOUNTING CENTER
CASE W EIG HT	2.8 lbs.
AC BALLAS T COM PATIBILITY	ELECTRONIC FLUORESCENT - STANDARD AND DIMM ING
LAM P COMPATIBILITY	FLUORESCENT 4-PIN W ITHOUT INTEGRAL STARTER
FIXTURE COM PATIBILITY	INDOOR SW ITCHED AND UNSW ITCHED TYPE
W IRE CONNECTION (STANDARD)	DUAL FLEX CONDUIT W HIPS
LED TEST S W ITCH TYPE (STA NDARD)	REMOTE P LATE

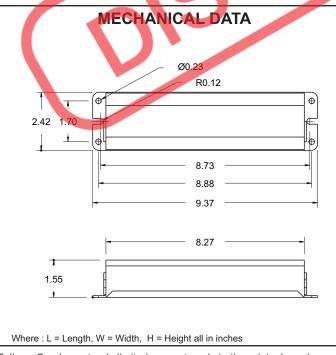


TABLE 1 LUMEN OUTPUT CHART					
FH1-DUAL-750CFL	WATTS	BASETYPE	INITIAL LUMEN OUTPUT		
WITHOUTINTEGRAL STARTER			1LAMP	2LAMPS	
CFQ	13	G24Q-1	350	425	
CFTR	13	GX24Q-1	350	425	
CFQ	18	G24Q-2	475	575	
CFTR	18	GX24-2	300	525	
CFQ	26	G24Q-3	600	700	
CFTR	26	GX24Q-3	450	725	
CFTR	32	GX24Q-3	575	750	
CFTR	42	GX24Q-4	750	Х	
FT(LONG)	18	2G11	300	400	
FT(LONG)	27/24	2G11	475	550	
FT(LONG)	39/36	2G11	575	750	
FT(LONG)	40/30	2G11	650	Х	
F2D/4P	28/38	GR10Q-4	475-525	650	
FT8	25/24	MED-BIPIN	525	700	
FQL	28	2G11	600	700	
T5	14/21	minl-bipin	400-450	Х	

Partial list of lamps operated - contact Fulham Customer Service when referencing alternative lamps - lumen ratings may vary with lamp specifications, light loss, lamp and luminaire maintenance and other utilization factors.

NOTE: WIRING DIAGRAMS SHOWN ON A SEPARATE SHEET

Fulham Co., Inc extends limited warranty only to the original purchaser or to the first user for the period of <u>2 years</u> from the date of manufacture as indicated and operated under normal conditions of use. For complete terms and conditions, please reference the Fulham Product Catalog (www.fulham.com).

Due to a program of continuous improvement, Fulham reserves the right to make modifications or variations in design or construction to the equipment described.



SPECIFICATIONSHEET: **FH1-DUAL-750CFL**ThisIsAnOriginalProductFromFulhamCo..lnc

APPLICATION

TheFireHorse emergency ballast can be used to add emergency lighting with or without an AC ballast and with most fluorescent fixtures without affecting normal fixture operation. The emergency ballast is designed for factory or field installation and can be mounted on top, inside, or remote from the fixture.

If used in an emergency-only fixture, no AC ballast is required. The Fire Horse emergency ballast is not suitable for use in air handling heated air outlets, outdoor, wet, or hazardous locations. The emergency ballast should not be installed near gas or electric heaters. The Fire Horse emergency ballast is rated for Indoor Dry/Damp locations, including fixtures rated for UL wet locations.

OPERATION

TheFireHorse emergency ballast is designed to immediately switch to the emergency mode when the primary AC power is interrupted illuminating one or two lamps at a reduced lumen output for a minimum of 90 minutes. Upon restoration of primary AC power; theFireHorse emergency ballast immediately returns to a battery charging mode. The LED indicator light source when illuminated indicates battery is in charge mode when AC power is applied. It is recommended and by code required to test the emergency ballast every 30 days to ensure that the ballast is functioning as evidenced by reduced illumination of one or two lamps when pushing the test switch. It is also recommended a 90 minute discharge test is performed one time every 12 months. Battery requires 24 hours to fully re-charge.

INSTALLATION

TheFireHorse emergency ballast may be used with either a switched or un-switched fixture. If a switched fixture is used, an un-switched hot lead must be connected to the emergency ballast to ensure the ballast remains in an uninterrupted charge condition while primary AC power source is active. Reference Installation Instructions for appropriate wiring or contact Fulham Customer Service. TheFireHorse emergency ballast must be fed from the same branch circuit as the AC ballast.

TheFireHorse emergency ballast may be remote-installed up to half the distance the AC ballast manufacturer recommends for remote mounting the AC ballast from the lamp, or up to 50 feet, whichever is less distance. The remote test switch plate may be mounted within 50 feet of the fixture and is subject to NEC and applicable local electrical code.

Installation is not recommended with fixtures where the ambient temperature may fall below 0° C for extended periods as this may affect the operation of the emergency ballast.

UL and CODE COMPLIANCE

TheFireHorse emergency ballast has been tested by Underwriters Laboratories in accordance with the standards contained in UL924, "Emergency Lighting and Power Equipment", and is UL approved for factory or field installations. Emergency illumination time meets or exceeds the National Electrical Code (NEC), Life Safety Code (NFPA-LSC) and UL 90 minute requirements.

BATTERY

The FireHorse emergency ballast contains a uniquely constructed, high-temperature rechargeable nickel cadmium battery. The battery is sealed within the ballast housing and is not replaceable. The battery must be recycled or disposed of properly and in compliance with federal, state and local regulations.

EMERGENCY ILLUMINATION

Illumination output varies with number of lamps, either 1 or 2 lamps, and lamp wattage requirement. The Fire Horse model FH1-DUAL-750CFL is designed to produce 300-750 initial emergency lumens output; if model works with 2 lamps the total initial lumens is distributed between the 2 illuminated lamps. Refer to Table 1 for average lumen output for selected lamps.

SPECIFICATION

Emergency lighting shall be provided by using a FireHorse emergency ballast with a standard fluorescent fixture equipped with or without an AC ballast. The emergency ballast shall be capable of operating one or two fluorescent lamps as referenced in Table 1. The emergency ballast shall conform to specifications contained in Electrical Data Table and comply with standards set forth by the current NEC. The emergency ballast shall be UL approved for installation on top, inside, or remote from the fixture.

NOTE: USE OF LOW MERCURY "GREEN" LAMPS

A growing number of fluorescent lamp manufacturers have reduced the level of mercury content in their products. While this is helpful to the environment, the lower mercury content makes the lamp more difficult to start in emergency mode, particularly in a compact fluorescent cold-start emergency-only application without an AC ballast.

Please contact Fulham Customer Service for further assistance if needed.



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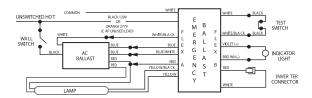
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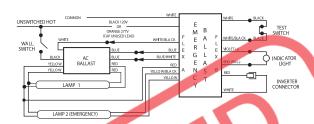
EMERGENCY BALLASTANDAC BALLAST MUST BE FED FROM THE SAME BRANCH CIRCUIT.

TYPICAL SCHEMATICS ONLY. MAY BE USED WITH OTHER BALLASTS. CONSULTTHE FACTORY FOR OTHER WIRING DIAGRAMS

RAPID START BALLAST (6W TO 28W)

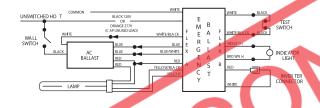


TWO (2) RAPID STARTAC BALLAST (6W TO 28W)

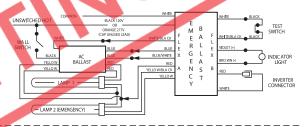


WIRING DIA GRAMS FOR ONE-LAMP EMERGENCY OPERATION

ONE (1) FOUR PIN COMPACT LAMP RAPID START BALLAST

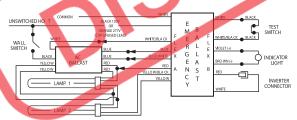


TWO (2) FOUR PIN COMPACT LAMP RAPID START BALLAST



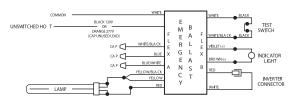
WIRING DIAGRAMS FOR TWO-LAMPS EMERGENCY OPERATION(13WTO 39W ONLY)

TWO (2) FOUR PIN COMP A CT LAMP RAPID START BALLAST



WIRING DIAGRAMS FOR EMERGENCY-ONL Y FIXTURES

ONE (1) FOUR PIN COMPACT LAMP WITHOUT AC BALLAST



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NOTE: YELLOW/GREEN OR YELLOW/BLACK PROVIDED - USE INTERCHANGEABLY