

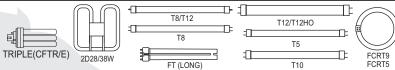
SPECIFICATION SHEET: FH5-DUAL-1400L This Is An Original Product From Fulham Co., Inc.

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 emergency ballast is not intended for general purpose lighting applications

This Ballast Will Operate Following Single/Bi-Pin/4-Pin Lamps.

ONE 42W 4-PIN OR ONE OR TWO 9W TO 32W 4-PIN CFL OR ONE 18W TO 55W 4-PIN LONG COMPACT OR **ONE** OR **TWO** 17W TO 40W(2'-4')
T8/T10/T12 OR **ONE** (MOST) 17W TO 215W (2'-8') T8/T10/T12 INCLUDING
HO, VHO, U-SHAPED, CIRCLINE OR **ONE** 8W TO 21W T5 FLUORESCENT LAMPS AT REDUCED ILLUMINATION (ALL WITHOUT INTEGRAL STARTER)



ELECTRICAL DATA

50Hz				
UL - LISTED FOR DAMP LOCATION - FACTORY OR FIELD INSTALLATION				
MEETS OR EXCEEDS UL924 - N.E.C. AND LSC EMERGENCY OPERATING REQUIREMENT				
3.5 WATTS				
280mA				
EMERGENCY				
90 MINUTES				
24 HOURS				
1400 LUMENS				
HIGH TEMPERATURE RECHARGABLE NI-CAD – MAINTENANCE FREE				
0°C TO 50°C (32°F TO 122°F)				
6.0Vdc				
280mA Max.				
24.0Wh				
4.0Ah				
SINGLE POLE				
LED				
VANDAL RESISTANT – SEALED				
PAINTED STEEL				
13.3"L X 2.4"W X 1.5"H X 12.83" MOUNTING CENTER				
3.4 lbs.				
ELECTRONIC FLUORESCENT – STANDARD AND DIMMING				
FLUORESCENT SINGLE/BI-PIN / 4-PIN WITHOUT STARTER				
INDOOR SWITCHED AND UNSWITCHED TYPE				
STANDARD WIRE LEADS				
TEST SWITCH & LED INDICATOR				

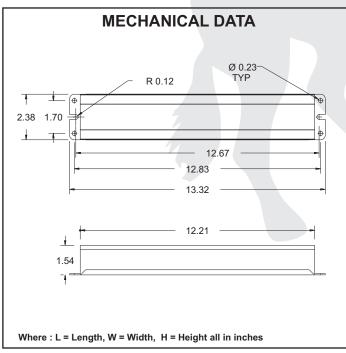


TABLE 1 LUMEN OUTPUT CHART							
FH5-DUAL-1400L	- WATTS	BASE TYPE	INITIAL LU	MEN OUTPUT			
WITHOUT INTEGRAL STARTER	- WAITS	BASETIFE	1 LAMP	2 LAMPS			
T12	20/30/40/48	G13/med-bipin	1100-1400	1100-1400			
F60/72/96T12	50/55/60	FA8/single pin	1100-1400	Х			
F24/36/48/60/72/84/96T12HO	35-100	R17D/REC	1100-1400	Х			
F48T10	110	R17D/REC	1100-1400	Х			
Т8	17/25/32	G13/med-bipin	1100-1400	1100-1400			
Т8	40	G13/med-bipin	1100-1400	Х			
F96T8	59	FA8/single pin	1100-1400	Х			
Т9	32/40	G10Q-4	1100	Х			
F2D/4P	28/38	GR10Q-4	1000-1100	1000-1100			
FT(LONG)	39/36	2G11	1100	1100			
FT(LONG)	40/30/55/50	2G11	1100	Х			
T5(CIRCULAR)	22/40/55	2GX13	750-1100	Х			
T5	21	mini-bipin	750	Х			
CFTR	32	GX24Q-3	1100-1200	1200-1300			
CFTR	42	GX24Q-4	1200-1400	Х			
CFTR	57/70	GX24Q-4	1100-1200	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 5 years 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.



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APPLICATION

The **FireHorse** 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 **FireHorse** 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 **FireHorse** emergency ballast is rated for Indoor Dry/Damp locations and for sealed and gasketed fixtures, including fixtures rated for UL wet locations.

OPERATION

The **FireHorse** 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; the **FireHorse** 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.

INSTALLATION

The **FireHorse** 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. The **FireHorse** emergency ballast must be fed from the same branch circuit as the AC ballast.

The **FireHorse** 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

The **FireHorse** 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 **FireHorse** model **FH5-DUAL-1400L** is designed to produce 750-1400 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.



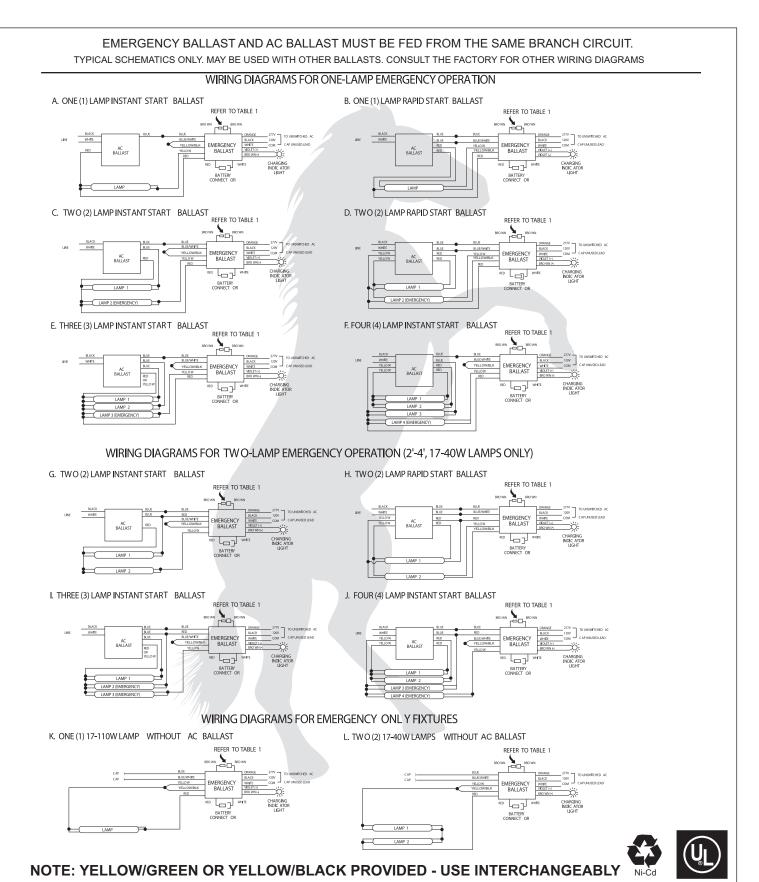


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2006-125-3 rev G



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TABLE 1

LAMP DIAMETER	BASE TYPE	POWER (LENGTH)	NUMBER OF EMER. LAMPS	BROWN CONNECTOR
1", 1-1/4", 1-1/2"	SINGLE OR BIPIN	17-24W	1	CLOSED
(T8, T10, T12)	SINGLE ON BIFIN	17-2400	2	OPEN
1// 1 1/4 // 1 1/2 //		22.40 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1	CLOSED
1", 1-1/4", 1-1/2" (T8, T10, T12)	SINGLE OR BIPIN	32-40 W (2'-4')	2	OPEN
		40-110 W (5'-8')	1	OPEN
	18-39 W	4	1	CLOSED
LONG COMPACT	4-PIN (2G11)	10-39 W	2	OPEN
	1/2	40-50 W	1	OPEN
COMPACT	4-PIN	18-42 W	1	CLOSED
	(G24q, GX24q)	18-42 W	2	OPEN
T5	BIPIN	21	1	CLOSED



