ISD-80

SELF DIAGNOSTIC FLUORESCENT EMERGENCY BALLAST



DESCRIPTION:

The ISD-80 from IOTA Engineering is a UL Listed self-diagnostic fluorescent emergency ballast that allows the same fixture to be used for both normal and emergency operation. In the event of a power failure, the ISD-80 switches to the emergency mode and operates one or two of the existing lamps for 90 minutes. The unit contains a battery, charger, and inverter circuit in a single can, and can be mounted in the wireway or on top of the fixture. The ISD-80 will self-test for thirty seconds monthly and for ninety minutes annually and will diagnose potential problems within the light fixture. If problems are encountered, the unit will specify failure of the battery, charge, lamp, or inverter by means of an audible beep and flashing red indicator. The dual color LED indicator is lit red when charging and lit green when ready. The ISD-80 can be used with 2'-8' fluorescent lamps, providing an initial output of up to 1300 lumens for one or two lamps, and features lamp selector leads for optimizing light output for designated lamp types.

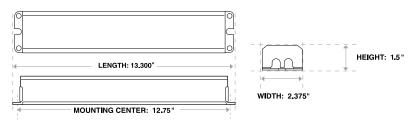
TECHNICAL SPECIFICATIONS

Input Voltage	110-277V, 50-60Hz
Input Wattage	
Lamps Operated	Most 2'-8' single, bipin T8 & T12 HO or VHO fluorescent lamps, incl. long compact and 2'-4' 28W to 54W T5 lamps
Emergency Operation*	(1) 2'-8' or (2) 2'-4' 90 minutes *Long compact and T5 - (1) lamp only
Initial Illumination	(1) lamp 1300 lumens (2) lamps 650 lumens each lamp
Operating Temp	0° to 55° C
Battery	24 Hour Recharge 7-10 Year Life Expectancy
Weight	3.6 lbs.
Approval	UL and CUL Listed



CASE DIMENSIONS

13.3" x 2.375" x 1.5" (mounting center 12.75")



LAMPS OPERATED*

Most 2'-8' single, bipin, T8 & T12, HO or VHO fluorescent lamps, incl. long compact and 2'-4' 28W to 54W T5 lamps

*Refer to Lumen Reference Chart for list of compatible lamps

PRODUCT ADVANTAGES

Automatically conducts required monthly and annual testing

Internal self-diagnostic circuitry tests lamp frequency, battery charge and discharge current

Time Delay feature for compatibility with End-of-Lamp-Life circuitry

Open Circuit Isolation protects unit when load is absent

Universal Voltage 110-277V, 50-60Hz

FEATURES

Will cold start and operate all specified lamps

Long life high temperature recyclable Ni-Cad battery

Galvanized steel case

Includes one-piece test switch and dual color charge indicator (LPTS)

For use with switched or unswitched fixtures

5-Year Warranty. See Warranty Page for details.

Selectable lamp leads optimizes light output for desired lamp type

DL Model suitable for use in enclosed and gasketed fixtures

Meets or exceeds all National Electrical Code and Life Safety Code Emergency Lighting Requirements

Damp Location model available



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OPTIONS

CONFIGURATION

LPTS

SPECIALTY

DL - SUITABLE FOR USE IN DAMP LOCATIONS AND ENCLOSED AND GASKETED FIXTURES.

VOLTAGE RATINGS

UNIVERSAL VOLTAGE 110-277V, 50-60Hz

AVERAGE LUMEN RATINGS

LAMP	1 LAMP	2 LAMPS
F16 T8	1125	1100
F17 T8	1125	1100
F25 T8	1200	1150
F28 T8	1215	1175
F32 T8	1350	1350
8' T8 (FO96) (59W)	1300	
F20 T12	680	
F40 T12	1150	
F48 T12	1150	
8' T12 (F96T12) (60W)	1125	
28W T5	1050	
39W T5	1100	
54W T5	1150	
20W Circline	1125	
40W Circline	1125	
57W PL CF Quad 4 Pin	1160	
70W PL CF Quad 4 Pin	1200	
36W Long Compact	1050	
40W Long Compact	1050	
50W Long Compact	1100	
55W Long Compact	1100	

DIAGNOSTIC CODES

LED IS RED WHEN CHARGING, GREEN WHEN READY				
CHARGE FAILURE	1 BEEP	1 FLASH	FAILURE CODES OCCUR ONCE EVERY 15 SEC-	
BATTERY FAILURE	2 BEEPS	2 FLASHES	ONDS WITH 1 SECOND	
LAMP FAILURE*	3 BEEPS	3 FLASHES	CODES IN INSTANCES	
INVERTER FAILURE*	4 BEEPS	4 FLASHES	OF MULTIPLE FAILURE	

^{*}IF FAILURE, REPLACE LAMP AND RETEST

REMOTE MOUNTING

When battery packs are remote mounted, consult Customer Service for the maximum allowable distance between the battery pack and lamp(s).

ISD-80 SAMPLE SPECIFICATION

Emergency lighting shall be provided by using a standard fluorescent fixture equipped with an IOTA ISD-80 self-diagnostic fluorescent emergency battery pack. The ISD-80 shall be designed to automatically test the emergency lighting capability for no less than 30 seconds monthly and 90 minutes annually, and shall monitor lamp frequency, battery charge and battery discharge current. An audible alarm and light-emitting LED shall be provided to indicate test results and charge status. The ISD-80 shall consist of a high temperature, maintenance-free nickel cadmium battery, charger board and an electronic circuit enclosed in a 13.3" x 2.375" x 1.5" vandal-resistant galvanized steel case for installation either inside the wireway or on top of the fixture. A combination one piece test switch and longlife LED charge indicator light for monitoring charger, inverter, battery, and fault conditions shall be included. The fluorescent EM pack shall operate one 20W-75W (2'-8') T8 - T12, 28W- 54W (2'-4') T5, 40W-55W long compact, or two 20W-40W (2'-4') T8 - T12 fluorescent lamps. The ISD-80 shall provide reduced illumination for a minimum of 90 minutes in the emergency mode with a total initial output of 1300 lumens and feature lamp selector leads for optimizing the light output for the designated lamp type. The ISD-80 shall have 3.5 watts of input power and a battery capacity of 24 watt hours. The ISD-80 is UL Listed and meets or exceeds all NEC and Life Safety Code Emergency Lighting Requirements. The ISD-80 is warranted for a full five (5) years from the date of purchase.