

SELF-DIAGNOSTICS

ISD-80

FLUORESCENT EMERGENCY BALLAST



LUMEN OUTPUT

(1) Lamp - 1300 Lumens
(2) Lamps - 650 Lumens Per Lamp

LAMPS OPERATED

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

EMERGENCY OPERATION

90 Minutes
(1) 2'-8' or (2) 2'-4'

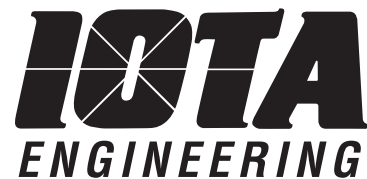
The **ISD-80** from IOTA Engineering is a UL Listed self-diagnostic fluorescent emergency ballast that allows the same fixture to be used for both normal and emergency operation. In the event of a power failure, the **ISD-80** switches to the emergency mode and operates **one or two** of the existing 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.

CASE DIMENSIONS	TECHNICAL SPECIFICATIONS
<p>TOP LENGTH: 13 1/8"</p> <p>SIDE MOUNTING CENTER: 12 3/4"</p> <p>END HEIGHT: 1 1/2" WIDTH: 2 3/8"</p>	<p>Input Voltage 110-277V, 50-60Hz</p> <p>Input Wattage 3.5 Watts</p> <p>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</p> <p>Emergency Operation (1) 2'-8' or (2) 2'-4' 90 min.</p> <p>Initial Illumination* (1) lamp 1300 lumens (2) lamps 650 lumens each lamp *Long compact and T5 - (1) lamp only</p> <p>Operating Temp 0° to 55° C</p> <p>Approval U.L. and C.U.L. Listed</p> <p>Weight 3.6 lbs.</p>

- U.L. and C.U.L. Listed
- Will cold start and operate all specified lamps
- Long life high temperature recyclable Ni-Cad battery
- 90 minute emergency operation
- Galvanized steel case
- Includes one-piece test switch and dual color charge indicator (LPTS) accessories
- Universal voltage 110-277V, 50-60Hz
- 5-Year Warranty. See Warranty Page for details.

- Time delay enhancements
- Open circuit isolation
- Automatic monthly and annual testing
- Internal self-diagnostic circuitry
- Tests lamp frequency, battery charge and discharge current
- 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

MODEL NO: ISD-80	TYPE:
PROJECT:	
COMMENTS:	



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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 1/8" x 2 3/8" x 1 1/2" vandal-resistant galvanized steel case for installation either inside the wireway or on top of the fixture. A combination one piece test switch and long-life 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, 36w-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.

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
F17 T8	1125	1100
F25 T8	1200	1150
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
BATTERY FAILURE	2 BEEPS	2 FLASHES
LAMP FAILURE*	3 BEEPS	3 FLASHES
INVERTER FAILURE*	4 BEEPS	4 FLASHES

FAILURE CODES OCCUR ONCE EVERY 15 SECONDS WITH 1 SECOND DELAY BETWEEN CODES IN INSTANCES OF MULTIPLE FAILURE

*IF FAILURE, REPLACE LAMP AND RETEST

REMOTE MOUNTING

When battery packs are remote mounted, the remote distance can not exceed 1/2 of the distance from ballast to lamp specified by the A.C. ballast manufacturer. For example, if the A.C. ballast manufacturer recommends no more than 25' remote distance, then the battery pack should not exceed 12 1/2'. The maximum allowable remote mounting distance is 50' from the lamp.