



Project Details

PROJECT	
DATE	
TYPE	
PREPARER	



NB-TRK innovative Troffer Retrofit Kit offers an economical solution to upgrade existing fluorescent fixtures to LED technology. The NB-TRK kit provides a quick & easy installation which reduces labor cost and maximizes your ROI. The NB-TRK can be used to retrofit most existing 2x2 and 2x4 troffers while eliminating the need to replace existing luminaire housing, which reduces install time, disposal & removal costs. The hard formed diffuser produces comfortable and pleasant illumination on the eyes. Converting your troffers to LED saves money on energy costs and maintenance. The NB-TRK is your ideal choice for commercial applications.

SPECIFICATIONS Product Features

Construction

- Galvanized steel body
- Reflective Powder Coat white finish
- Polycarbonate Formed Lens
- Two Rail Installation

Installation & Mounting

- Recessed/Ceiling T-Bar
- Suspended Mounting

Controls & Dimming

- 0-10 Volt Dimming
- 12 Volt AUX
- Bluetooth Mesh Control (Avi-on)
- 90 Mins Emergency Back up
- Microwave Sensor

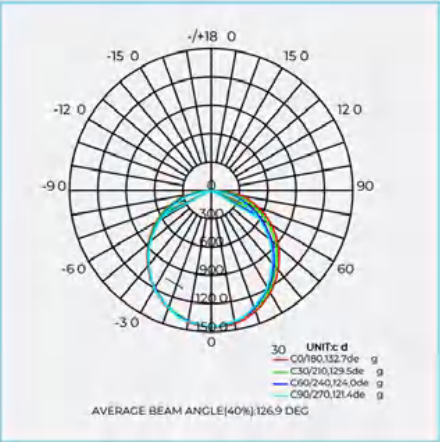
PERFORMANCE Summary

Input Voltage	100-277V
Input Frequency	50/60 Hz
Rated Wattage	2x2 - 15W, 20W, 30W (Selectable) 2x4 - 20W, 25W, 35W (Selectable)
Efficacy	140 lm/W
CRI	>80
Available CCT	3500K, 4000K, 5000K
Rated Life (L70)	50,000 hrs
IP Rating	IP20
PF	>0.95
Certifications	DLC, CE, RoHS, ETL
Working Temp. (°F)	-4F - 104F
LED Light Source	SMD 2835

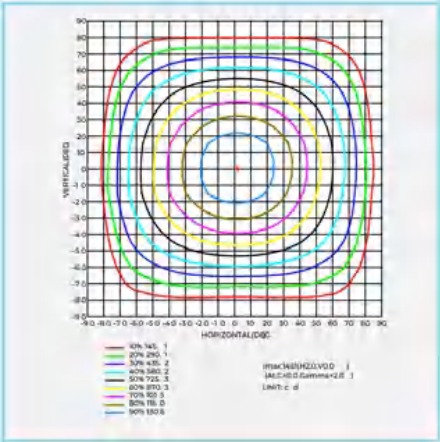


BEAM Angle

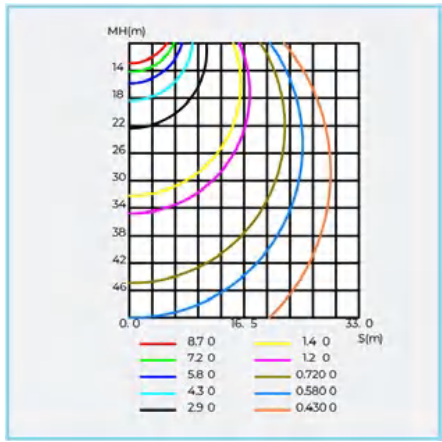
Light Distribution Curve



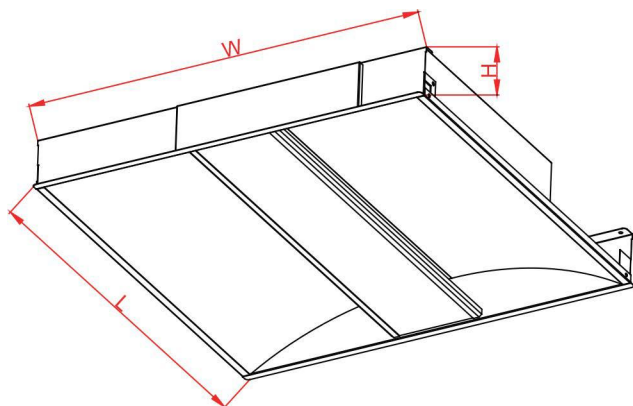
Isocandela Diagram



C0 Plane Isolux Diagram

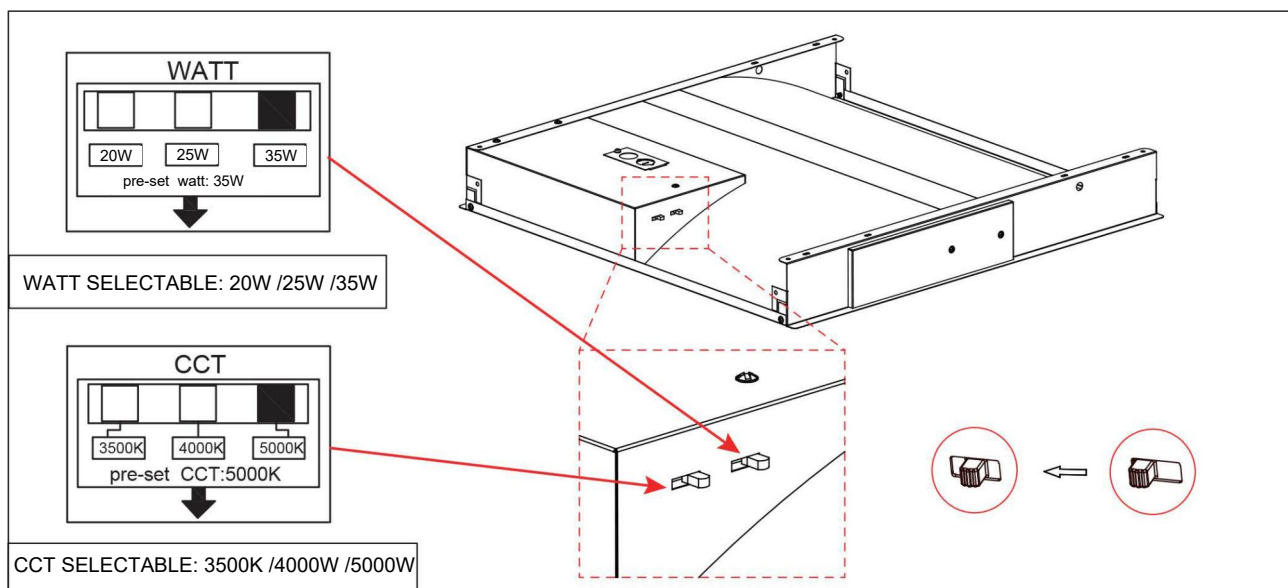


PRODUCT Dimensions



MODEL	L	W	H
NB-TRK-2x2	23.74"	23.74"	2.95"
NB-TRK-2x4	47.76"	23.74"	2.95"

CCT & WATTAGE Changing



PERFORMANCE Data

MODEL	WATTAGE	CCT	LUMEN	EFFICACY (lm/W)	VOLTAGE
NB-TRK-2x2-15W	15watt	3500K, 4000K, 5000K	2,100lm	140 lm/W	100-277vac
NB-TRK-2x2-20W	20watt	3500K, 4000K, 5000K	2,800lm	140 lm/W	100-277vac
NB-TRK-2x2-30W	30watt	3500K, 4000K, 5000K	4,200lm	140 lm/W	100-277vac
NB-TRK-2x4-20W	20watt	3500K, 4000K, 5000K	2,800lm	140 lm/W	100-277vac
NB-TRK-2x4-25W	25watt	3500K, 4000K, 5000K	3,500lm	140 lm/W	100-277vac
NB-TRK-2x4-35W	35watt	3500K, 4000K, 5000K	4,900lm	140 lm/W	100-277vac

ORDERING Format

Sample: NB-TRK2x2-35W

SERIES	WATTAGE	CCT	VOLTAGE	OPTICS	FINISH*
NB-TRK	2x2: 15W-20W-30W	35 = 3500K 40 = 4000K 50 = 5000K	V = 100-277V	T5	BLANK = White
	2x4: 20W-25W-35W				

MOUNTING Options

Recessed Mounting

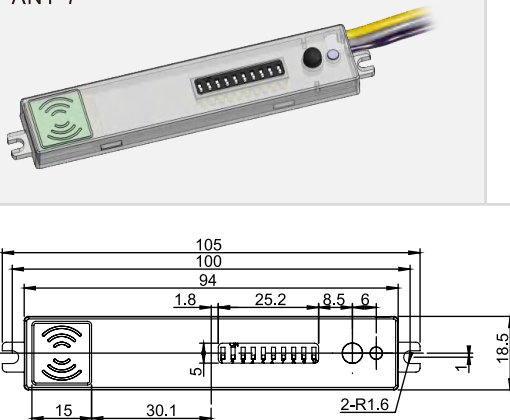
ANT-7	Bi-Level Sensor
EM	Battery Backup
RC	Programing Tool

BI-LEVEL Daylight Harvest Microwave Sensor - ANT-7 Instruction

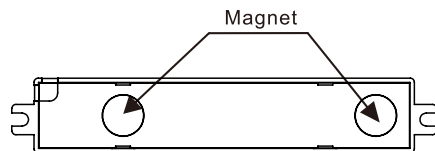
RC-100
(OPTIONAL)



ANT-7



Magnet

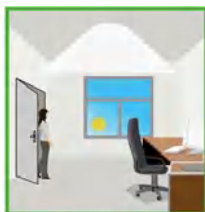


DAYLIGHT Harvesting Function (only by using RC100 remote control)

The microwave sensor to achieve tri-level dimming control, for same areas that require a light change notice before switch off. It offers 3 levels of the light Control: 100%—dimming light (0,10%,30%,50%)—off; and 2 periods of selectable waiting time: motion holdtime and stand-by time. Selectable daylight threshold and choice of detection area.



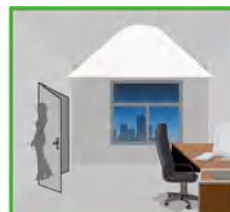
The light will not switch on when natural light is suficient, even there is motion detected



The light switches on automatically with presence when natural light is inauficient



The light turns on at full or dims to maintain the lux level. the light output regulates according to the level of naturl light available



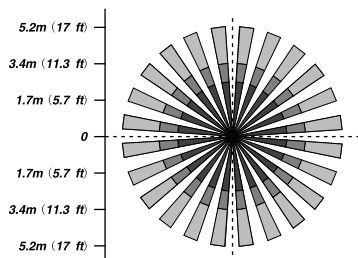
The light dims to stand-by period after hold-time and stays on selected minimum dimming level



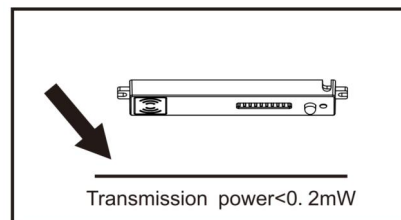
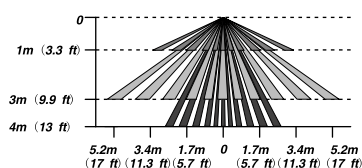
The light switches off completely after the stand-by period

SENSOR Coverage

Top View



Side View



NOTE: The high-frequency output of this sensor is <0.2mW - that is just one 5000th of the transmission power of a mobiel phone or the output of a microwave oven.

SPECIFICATIONS

Power Supply	12-24V DC, >50mA
HF System	5.8GHz±75MHz
Dim Control Output	0-10V, max. 25mA sinking current
Detection Radius/Angle	Max 17ft. (5.2m)/360°
Mounting Height	Max 13ft. (4m)
Remote Range	50ft. (15m) indoor, no backlight
Humidity	Max. 95% RH
Temperature	-40°F - 158°F (-40°C - 70°C)

⚠ WARNING

NOTE: Warm up time is 15 seconds. After the sensor connects input power first time, the light will stay on 15 seconds, then start dimming.

NOTE: Factory Default Setting: 100% sensitivity, Hold on time: 10 seconds, Daylight sensor is 30lux, Dimming level: 30% Dimming time: 60 minutes.

NOTE: Any setting changed by DIP Switch or remote control, the LED light that sensor connect will on/off as confirm.

UTILIZING Field and Introduction

ANT-7 is a moving object sensor that can detect range of 360° and its working frequency is 5.8GHz. The advantage of this product is stable working state (stable working temperature: -40°C—+70°C), ANT-7 adopts a microwave sensor (high-frequency output <0.2mW) so that it is safe and performs better than infrared sensor.

LED EMERGENCY BACK-UP Driver | Dual Flex Conduit | 5W Output | 120 -277V Input

Driver Type	Constant Wattage LED Emergency
Max. Output Power	5W
Input Voltage	120-277 Vac ±10%
Output Voltage	20 ~ 60 Vdc
Output Current	250mA - 86mA
Warranty	5 Years



PRODUCT Features

- Drives LED loads at 5W (nominal) for a minimum of 90 minutes
- Meets FCC Part 15 (Class B) consumer limits
- Short circuit overload and open load protection
- Suitable for dry and damp locations
- Safety Standard: UL 924 standards, Complies with CEC Title 20 Efficiency Standards
- Operating temperature: 0°C/32°F to 50°C/131°F
- Input frequency: 50/60 Hz
- Test switch/Charging indicator light and wall plate included
- Battery capacity: High-Temperature, Maintenance-Free, LiFePO4 Battery, 9.6Vdc, 3 cell
- Dual flex conduit fits into ½" knockouts
- Listed for field or factory installation: UL 924 and CSA C22.2 no. 141 emergency lighting compliant
- 3A max. pass-through current

LED Emergency Back-up Driver | Electrical Specifications

	INPUT CHARACTERISTICS			OUTPUT CHARACTERISTICS		
Family	Input Voltage	Power Factor	Max. Current	Max. Output Power	Rated Output Current	Output Voltage
5W	120-277Vac	≥0.5	0.050A @ 120V 0.035A @ 240V 0.030A @ 277V	5W	250mA-104mA	20~60Vdc Class 2 Compliant

Emergency pack designed to deliver 5W to a constant current LED load. Approximate output is 500 lumens, assuming a nominal minimum efficacy of 100 lm/W

ENVIRONMENTAL Specifications

Operating Temperature	0°C/32°F to 55°C/131°F
Storage Temperature	-20°C/-4°F to 55°C/131°F
Humidity	5% to 95%
MTBF	284,000 hours at 40°C ambient (~55°C/131°F Case temp)
Life Rating	97,500 hours at 120Vac input, 100% load and 55°C/131°F case temperature
Maximum Case Temperature	55°C/131°F

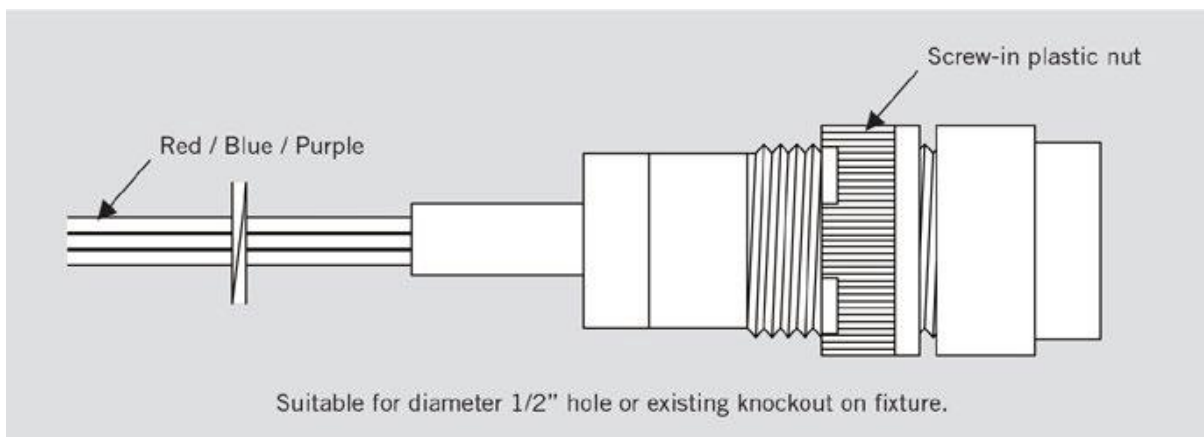
SAFETY and EMC Compliance

UL/cUL	UL 924
FCC, 47CFR Part 15	ANSI C63.4:2009 Class B (Consumer Limit)
EN61000-3-2	Harmonic Current Emissions Class C

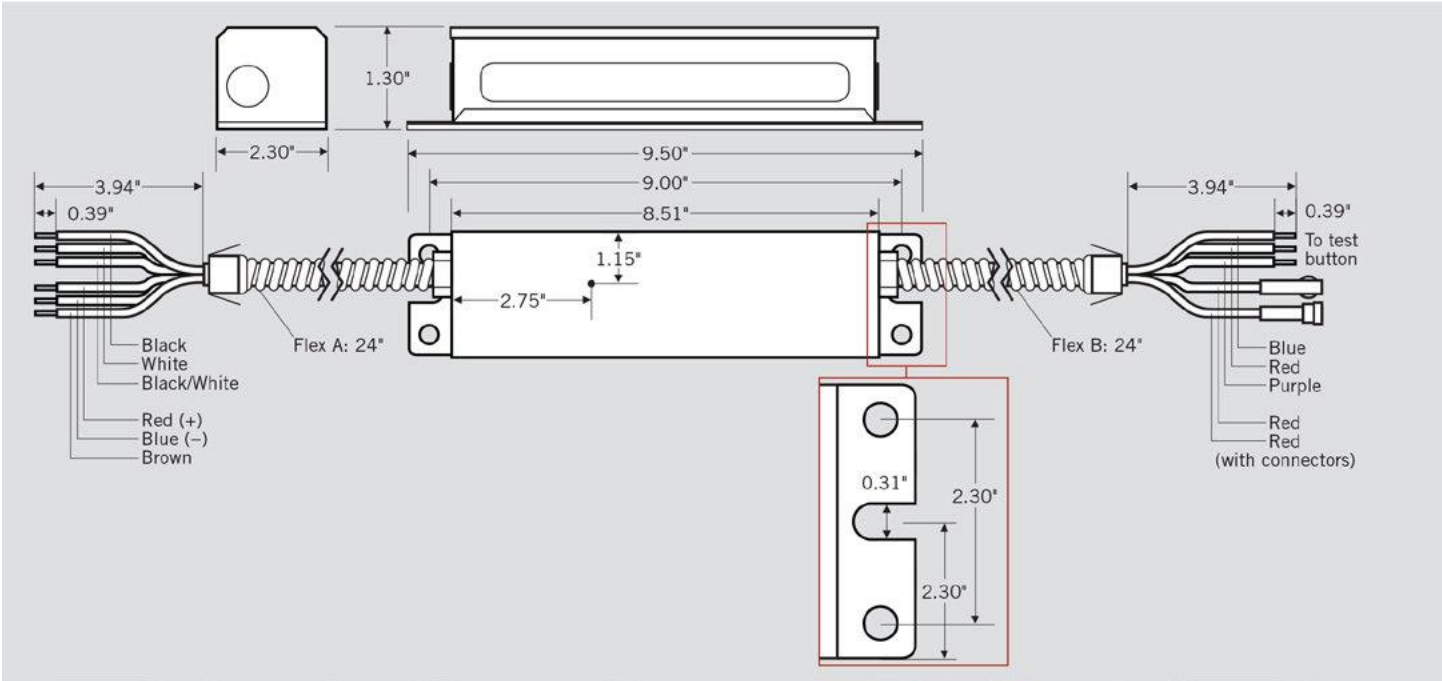
LED Emergency Back-up Driver | Ordering Information

ORDER CODE	DESCRIPTION	PACK QUANTITY	EASY CODE	UPC
KT-EMRG-LED-5C-500-EN /DF-IP	1-Piece LED Emergency Back-up with Dual Flex Conduit	1	RAR-74	843654132433

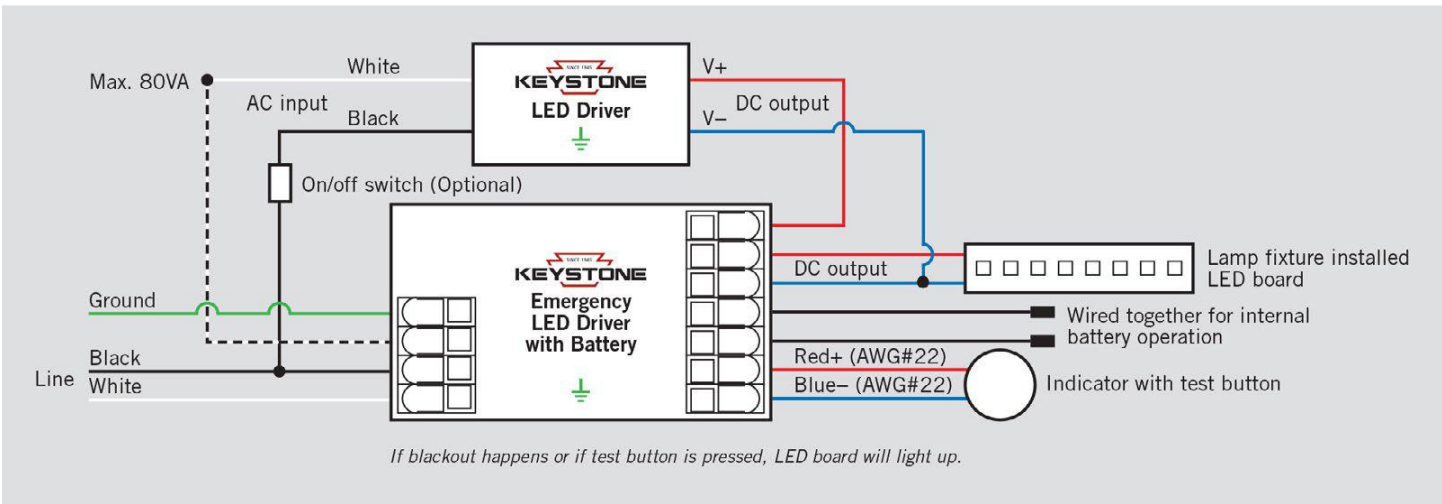
LED Emergency Back-up Driver | Test Switch



LED EMERGENCY BACK-UP DRIVER | PHYSICAL Specifications



LED EMERGENCY BACK-UP DRIVER | WIRING Specifications



WIRING Output Window

