



**GENERAL INFORMATION**

The Emergency Bypass Detection Kit (EBDK) monitors a single-phase or three-phase normal power feed and a fire alarm contact. When the EBDK detects a fire alarm signal or a loss of normal power, it generates a maintained contact closure to trigger the UL 924 Listed Emergency Lighting Bypass Operation in connected ETC lighting control products.

**APPLICATIONS**

- Houses of worship
- Hotels
- Convention centers
- Theatres
- Schools
- Restaurants

**FEATURES**

- Self-contained unit provides sensing for power loss and fire alarm trigger
- Compatible with single-phase or three-phase power systems
- Compatible with 100–277 V power systems
- Fully automatic sensing
- Provides up to three independent outputs configurable for normally-open or normally-closed operation
- Rugged metal enclosure with integrated breaker for overcurrent protection
- EBDK-SWITCH provides a manual restore switch requiring user intervention to restore normal lighting operation
- Available tap kits allows easy integration with power enclosures, eliminating the need for an external breaker when power is sensed from a normal-powered enclosure

**REGULATORY COMPLIANCE**

- cULus Listed
- UL924 Listed as emergency lighting and power equipment

**ORDERING INFORMATION**

**Emergency Bypass Detection Kit**

MODEL	DESCRIPTION
EBDK	Emergency Bypass Detection Kit

**Emergency Bypass Detection Accessories**

MODEL	DESCRIPTION
EBDK-SWITCH	Emergency Bypass Restore Switch
EBDK-TAP	Unison DRd Emergency Sense Feed Tap Kit
SR3-TAP	Sensor3 Emergency Sense Feed Tap Kit
IQ-TAP	Sensor IQ Emergency Sense Feed Tap Kit

**EBDK ACCESSORIES**

**EMERGENCY BYPASS RESTORE SWITCH**

- Easy-to-identify station labeled “Lighting System Restore”
- Prevents the system from returning to normal lighting while egress is occurring
- Single-button operation with red backlit switch
- Switch is illuminated during emergency lighting bypass operation
- Simple wiring using two #16 AWG wires
- Up to two restore switches may be connected to a single EBDK

**TAP KITS**

- Designed for use in Unison DRd, Sensor, and Sensor IQ enclosures
- Includes wire leads and fuse block for overcurrent protection
- Eliminates the need for an external circuit breaker



SPECIFICATIONS

FUNCTIONAL

- Compatible with single-phase or three-phase lighting systems from 100 V to 277 V
- Provides dry contact closure output to UL 924 ETC lighting control products for emergency lighting applications
- Automatic sensing of normal power loss and fire alarm contact
- Automatically returns to normal lighting operation when normal power is restored or fire alarm contact is no longer triggered
- Supports the Emergency Bypass Detection Kit Restore Switch requiring manual return to normal lighting

MECHANICAL

- Enclosure and cover are constructed of 16 gauge (0.08) steel and are finished in a fine-textured, scratch resistant epoxy paint
- Designed for wall-mount applications
- Removable cover
- Internal voltage barrier provides separate wiring compartments between power and control wiring
- Hinged locking door covers integrated breaker to prevent accidental tripping

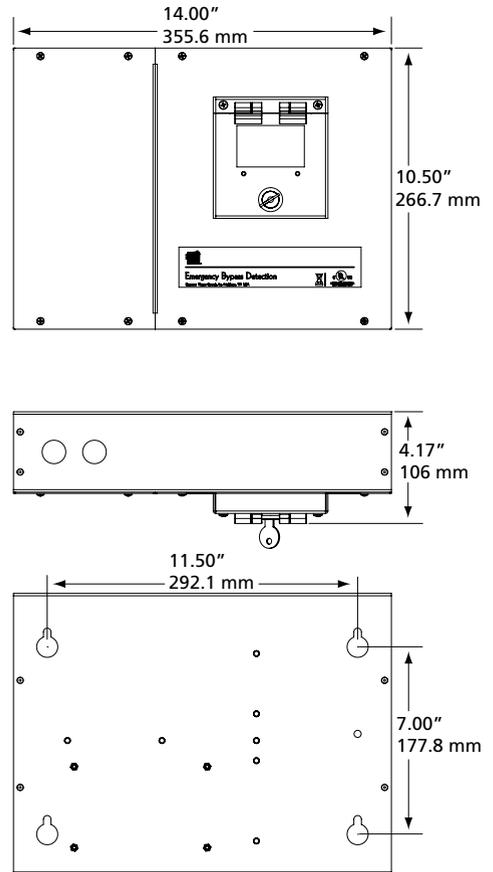
ELECTRICAL

- Supports input voltage from 100 V up to 277 V
- Phase loss detection circuitry provides a factory-set delay of 0.5 seconds to prevent nuisance tripping
- Integrated circuit breaker for overcurrent protection and simulation of power loss
- Isolated outputs for connection to multiple ETC products including power enclosures and DMX Emergency Bypass Controllers
- Up to 8 devices may be connected to each output
- All wiring terminations are made using provided terminals
- Input and output terminals accept #8 AWG to #22 AWG wiring
- Simple wiring for single-phase or three-phase systems
- Normally-closed input for fire alarm systems provided

THERMAL

- Ambient room temperature: 0°–40° C (32°–104° F)
- Ambient humidity: 10–90% non-condensing

PHYSICAL



Product Dimensions

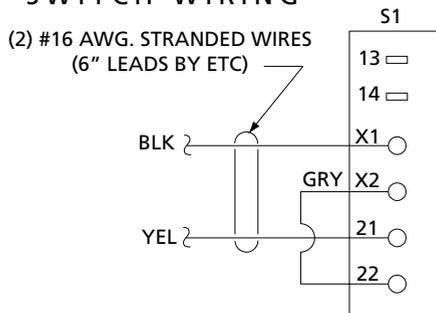
MODEL	HEIGHT		WIDTH		DEPTH	
	in	mm	in	mm	in	mm
EBDK	10.5	267	14.0	356	4.2	107
EBDK-SWITCH	4.5	114	3.0	76	3.0	76
TAP KITS	1.25	32	2.5	64	2.25	58

Product Weights\*

MODEL	WEIGHT		SHIPPING WEIGHT	
	lb	kg	lb	kg
EBDK	10.6	4.8	13.2	6.0
EBDK-SWITCH	0.1	0.05	0.4	0.18
TAP KITS	1.3	0.6	1.9	0.9

\*Weights and dimensions typical

EBDK – SWITCH WIRING



Corporate Headquarters • Middleton, WI USA

Global Offices • London, UK • Rome, IT • Holzkirchen, DE • Paris, FR • Hong Kong • Dubai, UAE • Singapore • New York, NY • Orlando, FL • Los Angeles, CA

Copyright©2020 ETC. All Rights Reserved. All product information and specifications subject to change. Rev G 2/20

Trademark and patent info: etconnect.com/IP

etconnect.com