



GENERAL INFORMATION

The DMX Emergency Bypass Controller provides a simple and cost-effective solution for control bypass of LED houselight systems in emergency lighting applications. The DMX Emergency Bypass Controller uses a single contact closure input to bypass the DMX control signal and drive all connected loads to full. Optionally, selected fixtures can be controlled using the snapshot setting.

APPLICATIONS

- DMX Houselights
- Permanently installed DMX controlled LED's
- Theaters
- Auditoriums
- Houses of Worship

FEATURES

- DMX control bypass
- Wires in-line with DMX to fixtures or other devices
- Uses a single maintained contact closure to activate DMX bypass
- Drives all 512 channels to full when contact closure is present

GENERAL

- UL924 Listed
- RoHS compliant
- WEE compliant

ORDERING INFORMATION

DMX Bypass Kit

MODEL	DESCRIPTION
DEBC	DMX Emergency Bypass Controller

Related Products

MODEL	DESCRIPTION
EBDK	Emergency Bypass Detection Kit
ELTS2	Emergency Lighting Transfer System

Compatible Power Products

MODEL	DESCRIPTION
SENSOR+	Sensor+ Dimming Panels
SENSOR3	Sensor3 Dimming Panels
DRd	Unison DRd Dimming Panels
SS	SmartSwitch Relay Panels
SL	SmartPack Dimming Panel



SPECIFICATIONS

FUNCTIONAL

- Overrides a single universe of ANSI E1.11–2008, USITT DMX512-A control signals from “Normal” to “Bypass” when a trigger signal is detected via a two-pin trigger input
- Polls the bypass trigger input after a power loss and reacts upon start up
- Does not process DMX input in Normal mode (pass-through)
- Records a single DMX preset (snapshot) of 512 channels for recall during “Bypass” mode
- Recalls default or recorded sequence immediately on restart if the trigger is also applied at restart

MECHANICAL

- Enclosure constructed of 18-gauge, formed steel panels with a removable front cover finished in gray, fine-textured powder coat paint
- Designed for Wall-mount applications
- Internal voltage barrier provides separate wiring compartments for power and control wiring
- LED indicator visible from the exterior of the enclosure.
 - Normal state with a “green” color light when Power is present
 - Bypass state with a “red” color light when active
- Test button accessible from the front of the enclosure without removing any panels
- The test button shall be recessed to prevent accidental triggering
- Internally accessible, labeled DIP switches for configuration of:
 - DMX Record Mode
 - Contact input type
 - Wait Time for Restore incoming DMX (bypass trigger removed)
- Internally accessible button for DMX Record (snapshot) with an indicator LED for record action

ELECTRICAL

- Supports 100 to 277 volt input power, 50/60 Hz, .2 amp maximum current
- Power Input terminals accept two 24 – 10 AWG solid or stranded wires
- Grounding Lug accepts 14-2 AWG solid or stranded ground wire
- Bypass Contact Input supports two, 30-12 AWG low-voltage wires with two modes:
 - +12VDC sent from the DEBC through a remote contact (dry)
 - +12VDC to +24VDC sent from the remote device to the DEBC contact (wet)
- Bypass input configurable as Maintained Normally Open (default) or Maintained Normally Closed

SPECIFICATIONS

ELECTRICAL (CONTINUED)

- Supports one Universe (512 channels) of Digital Multiplexing (DMX) in accordance with ANSI E1.11–2008, USITT DMX512-A.
 - DMX Output and DMX Input terminals for Belden 9729 cable or equivalent
 - Socketed DMX transceiver chip with on-board spare
- Non-volatile memory for storage of a single recorded sequence of 512 channels.
- UL and cUL 924 Listed for Emergency Lighting applications.

THERMAL

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

PHYSICAL

DMX Emergency Bypass Controller Dimensions*

MODEL	HEIGHT		WIDTH		DEPTH	
	inches	mm	inches	mm	inches	mm
DEBC	9.0	229	11.0	279	2.0	52

DMX Emergency Bypass Controller Weight*

MODEL	WEIGHT		SHIPPING WEIGHT	
	lbs	kgs	lbs	kgs
DEBC	4.7	2.2	5.4	2.5

*Weights and dimensions typical

