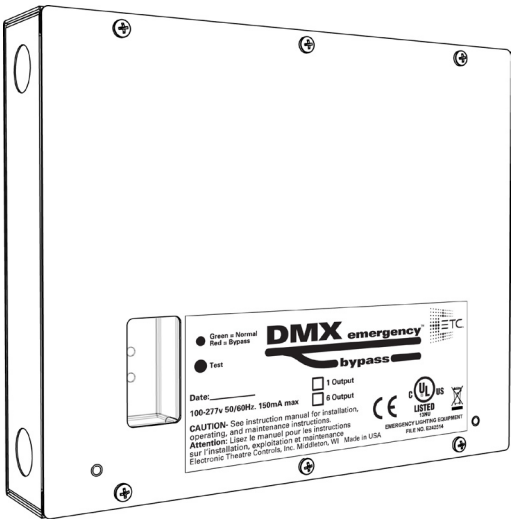


120V 220/240V 277V



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 LEDs
- 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
- WEEE compliant
- 1-output or 6-output models (single universe input)

ORDERING INFORMATION

DMX Bypass Kit

MODEL	DESCRIPTION
DEBC-1	DMX Emergency Bypass Controller, 1-output
DEBC-6	DMX Emergency Bypass Controller, 6-output

Related Products

MODEL	DESCRIPTION
EBDK	Emergency Bypass Detection Kit
SC1008	Branch Circuit ELTS (BCELTS)
ELTS2	Emergency Lighting Transfer System

Note: the DMX emergency bypass controller is suitable for use with UL924 listed fixtures and power panels as part of a control bypass system for emergency lighting. Appropriate UL1008 listed power transfer equipment is required to comprise a complete emergency lighting system.



## 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
- Sends DMX signal to a single line or up to six (6) optically isolated lines
- Polls the bypass trigger input after a power loss and reacts upon startup
- 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.
  - Green: power is present and Controller is functioning in normal state
  - Red: Controller is functioning in bypass state
- Test button accessible from the front of the enclosure without removing any panels
- The test button is recessed to prevent accidental triggering
- Internally-accessible, labeled DIP switches for configuration of:
  - DMX Record mode
  - Contact input type
  - Wait-time to Restore incoming DMX (bypass trigger removed)
- Internally accessible button for DMX Record (snapshot) with an indicator LED for record action

## ELECTRICAL

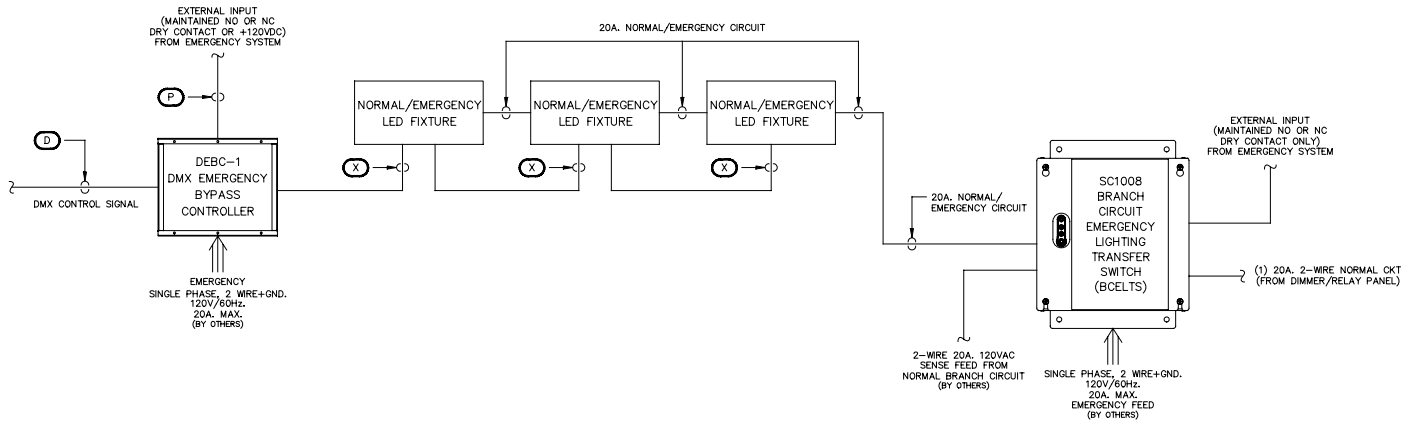
- Supports 100V to 277V input power, 50/60Hz, 0.2A maximum current
- Power Input terminals accept two 24–10 AWG solid or stranded wires
- Grounding Lug accepts 14-2 AWG solid or stranded ground wire
- Bypass Contact Input supports two 30-12 AWG low-voltage wires with two modes:
  - +12VDC sent from the 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
- DEBC-6 model requires normal/emergency power feed
- 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 onboard spare
- Non-volatile memory for storage of a single recorded scene of 512 channels
- UL and cUL 924 Listed for emergency lighting applications
- DEBC-1 passes RDM data in normal mode
- DEBC-6 passes RDM data through a single passthru output in normal mode

## THERMAL

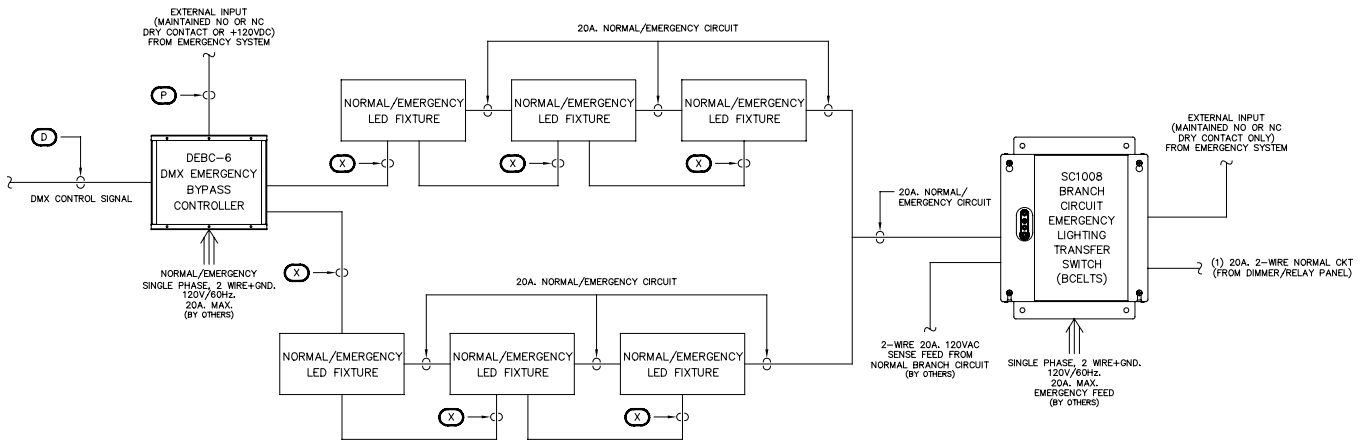
- Ambient room temperature: 0-40°C / 32-104°F
- Ambient humidity: 10-90% non-condensing

## DMX EMERGENCY BYPASS CONTROLLER RISER DIAGRAMS

## 1-OUTPUT DMX EMERGENCY



## 6-OUTPUT DMX EMERGENCY



NOTE: ONLY TWO OUTPUTS ARE SHOWN FOR CLARITY. UP TO SIX OUTPUTS ARE AVAILABLE.

PHYSICAL

DMX Emergency Bypass Controller Dimensions\*

MODEL	HEIGHT		WIDTH		DEPTH	
	inches	mm	inches	mm	inches	mm
DEBC-1, -6	9.0	229	11.0	279	2.0	52

DMX Emergency Bypass Controller Weight\*

MODEL	WEIGHT		SHIPPING WEIGHT	
	lbs	kgs	lbs	kgs
DEBC-1	8	3.6	8.7	3.9
DEBC-6	14.5	6.6	15.2	6.9

