



GENERAL INFORMATION

The Master Phase Loss Detector 2 (MLPD2) is a UL 924 Listed device, and the next phase of emergency detection and control bypass. With extensive, customizable input and output configurations, the Master Phase Loss Detector can detect an emergency situation from a multitude of triggers and send multiple control bypass output commands simultaneously.

APPLICATIONS

- Convention centers
- Sports arenas
- Theme parks
- Theatres
- Schools
- Restaurants

FEATURES

- Self-contained unit provides sensing for power loss
- Customizable number of input and output contacts to adapt to project needs
 - Input cards support up to 2 normally-closed dry contact inputs per card
 - Output cards support up to 4 normally-closed dry contact outputs per card to emergency products
 - Custom configurations can support up to 30 contact inputs or 60 contact outputs
- Compatible with single-phase or three-phase power systems, 100–277 VAC
- Rugged metal enclosure with integrated breaker for simulation of power loss
- Built-in restore switch requires manual action to restore system to normal operation

REGULATORY AND COMPLIANCE

- cULus Listed
- UL924 Listed as emergency lighting and power equipment
- CSA C22.2 No. 141-15, emergency lighting equipment

ORDERING INFORMATION

Master Phase Loss Detector 2

MODEL	DESCRIPTION
MPLD2 1/1	MPLD2, 1 Input Card, 1 Output Card
MPLD2 1/4	MPLD2, 1 Input Card, 4 Output Cards
MPLD2 2/8	MPLD2, 2 Input Cards, 8 Output Cards
MPLD2 4/12	MPLD2, 4 Input Cards, 12 Output Cards

Emergency Bypass Detection Accessories

MODEL	DESCRIPTION
MPLD2-IN	Input Card - Support for 2 Contact Inputs
MPLD2-OUT	Output Card - Support for 4 Contact Outputs
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



SPECIFICATIONS

FUNCTIONAL

- Compatible with single-phase or three-phase lighting systems from 100–277VAC
- Automatic sensing of normal power loss
- Modular design supports custom configuration of number of inputs and outputs needed per project
 - Input cards support up to 2 normally-closed dry contact inputs per card
 - Output cards support up to 4 normally-closed dry contact outputs per card to UL924 listed Emergency Products
- Manually returns to normal operation with built in Restore Switch on front cover
- Supports use of one additional Emergency Bypass Detection Kit Restore Switch for remote restore of normal operation

MECHANICAL

- Enclosure and cover are constructed of 16 gauge (0.08) steel and are finished in a grey fine-texture powder coat paint
- Designed for wall-mount applications
- Hinged cover for easy access
- 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 100–277 VAC
- Phase loss detection circuitry provides a factory-set delay of 0.5 seconds to prevent nuisance tripping
- Integrated circuit breaker for 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
- Input and Output cards support normally-closed contacts only

THERMAL

- Ambient room temperature: 0°–40°C (32°–104° F)
 - Ambient humidity: 10–90% non-condensing
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MPLD2 ACCESSORIES

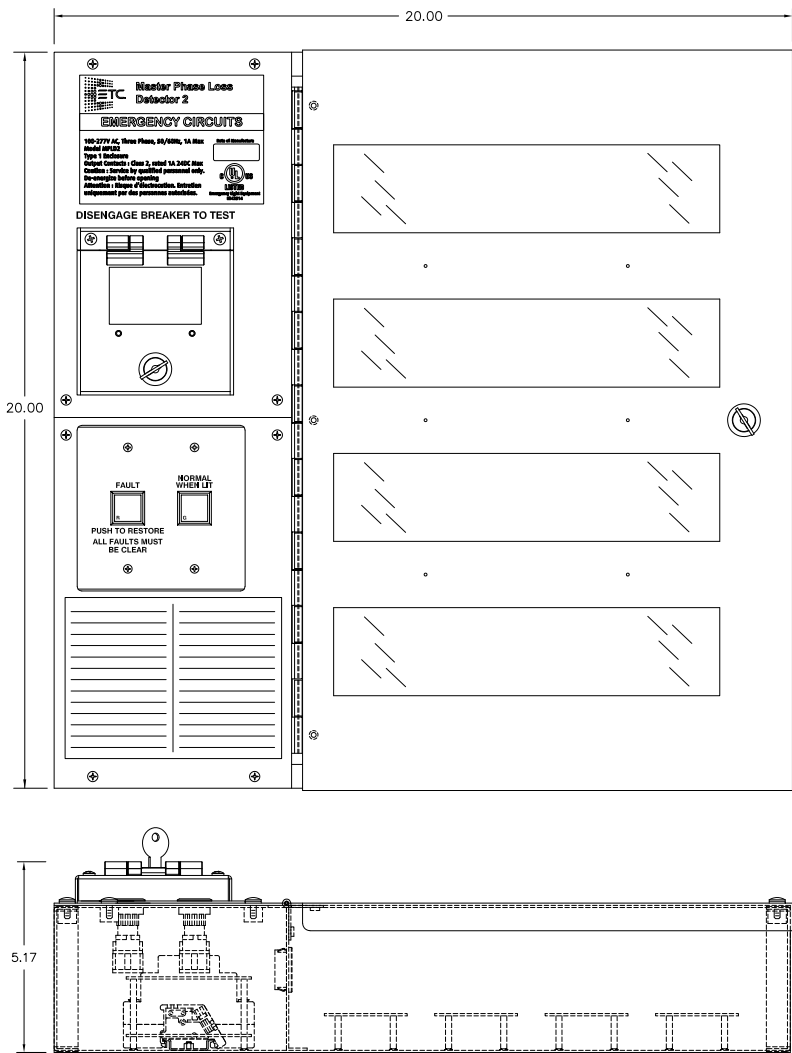
EMERGENCY BYPASS RESTORE SWITCH

- Easy-to-identify station labeled “Lighting System Restore”
- Allows remote system restore to normal operation
- Single-button operation with red backlit switch
- Switch is illuminated during emergency lighting bypass operation
- Simple wiring using two #16 AWG wires
- A single restore switch may be used per MPLD2

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

PHYSICAL



Product Dimensions

MODEL	HEIGHT		WIDTH		DEPTH	
	in	mm	in	mm	in	mm
MPLD2	20	508	20	508	5.17	131.3

Product Weights*

MODEL	WEIGHT		SHIPPING WEIGHT	
	lb	kg	lb	kg
MPLD2	26	11.8	31	14.1

*Weights and dimensions typical