The Ex-Or MLS Digital - Managed Lighting System

Universal Bus Transceivers

The Universal Bus Transceiver expands the scope of the Ex-Or MLS Digital by enabling otherwise uncontrolled lighting and non-lighting loads to be brought into the system. UBTs also allow external devices to provide inputs into the system. Two versions are available: either boxed enclosure (UBT2000) or DIN Rail mounted (UBT2000DIN).

Universal Bus Transceivers are programmed to respond to signals from the MLS Digital Bus as part of a Zone, Common Zone and/or Building Zone and operate in the same way as all MLS Digital Detectors:

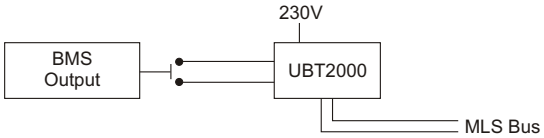
- Transmitting signals to the MLS Bus - following an external signal
- Receiving signals from the MLS Bus - to give an external output

A single UBT can perform both these functions simultaneously.

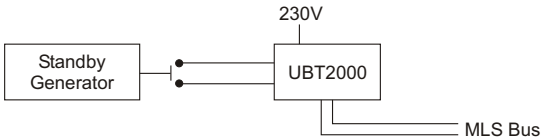
UBT2000

UBT2000DIN

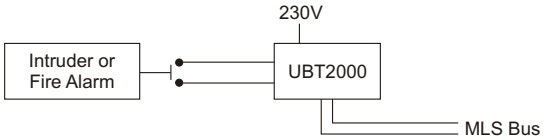
Examples of Remote Inputs to MLS Digital



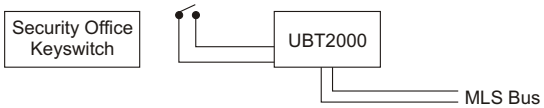
Suitable for: Time-switching, e.g. Common Zones
Go to a Scene, e.g. Out-of-hours pattern



Suitable for: Load-shed Global Message

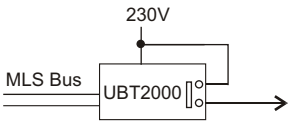


Suitable for: ALL (or selected) ON Global Message



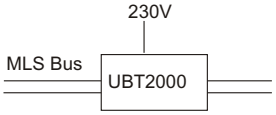
Suitable for: 'Switch On' Security Patrol Pattern

Examples of Outputs to Remote Device from MLS Digital



230V 10A Switched output
(using volt-free contacts) for:

Non-dimming Luminaires
Blinds
Screen
Other devices



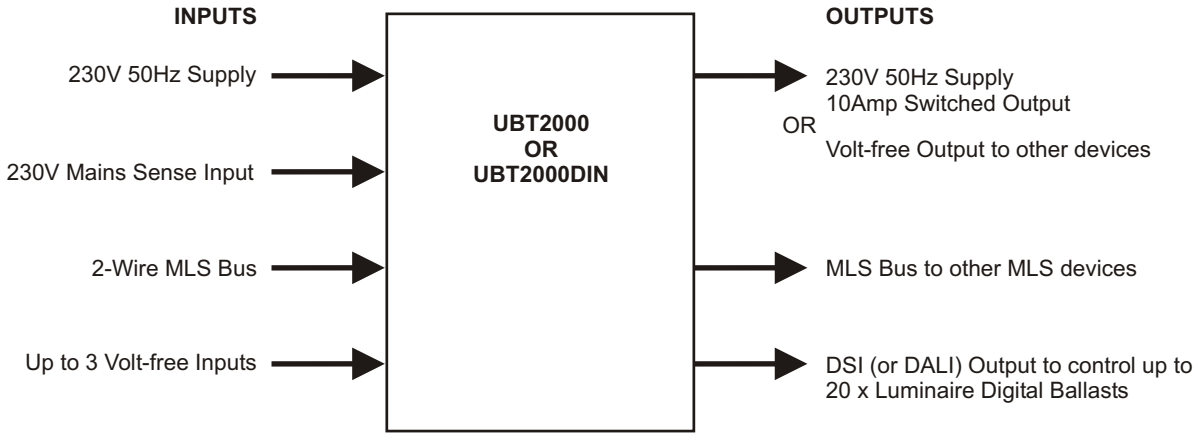
Digital output for:

Remote Digital Luminaires
Digital Transformers

Please check www.ex-or.com to ensure this is the most recent issue - Ref: D4052C

Overview

The UBT2000 is an input/output device. It is programmed with the HP2000 MLS Digital Programmer in the same way that MLS presence detectors are programmed.



Note: Inputs

Volt-free inputs can be connected from other systems such as fire, security, standby generator, BMS system or remote switches.

They can be either momentary or latched inputs:

Momentary = will send command sustained by local presence.

Latched = will send and maintain command regardless of local presence until unlatched.

They can be configured to send various commands.

These commands can be either:

Restricted to all MLS devices programmed to the same zone address and including common zones

OR

Sent as Global Commands across the whole MLS network to all devices which have been programmed to receive Global Commands.

The commands are:

SUSTAIN = Assume local presence, i.e. if already ON, stay ON. If OFF, switch ON to entry scene unless manually overridden OFF.

OFF = Switch OFF.

Scene 1 = Go to Scene 1

Scene 2 = Go to Scene 2

Scenes 3 - 6 = Go to corresponding Scene

ON = Switch ON to entry scene

Partition = Partition switch function

(See separate Application Note: AN4002)

Mains Sense Input

The 230V mains input sends the above SUSTAIN command to all MLS devices programmed to the same zone address(es) including Common Zones.

Note: Outputs

Respond to the inputs (left-hand column) examples of which are:

Mains sense input

OR

Volt-free input, suitably programmed

OR

Signal on MLS Bus from other device programmed to same address

as follows:

- Relay switches ON 230V 10Amp output, (or volt-free)
- DSI (DALI) output to directly control luminaires with digital ballasts or digital transformers
- Input command is sent to UBT's programmed zone(s) via MLS Bus

Part Numbers

UBT2000
Universal Bus Transceiver complete with enclosure

UBT2000DIN
Universal Bus Transceiver for DIN Rail mounting

Ancillary Items

HP2000 MLS Digital Programming Tool

Technical Data

Operating Voltage: 230V 50Hz (UK and Europe)
Product rating and recommended circuit protection:10A
Max recommended load: 10A
Incandescent lamps: 1500W max (230V)
Digital dimming output load: 20 Ballasts max
Dimensions and Weight

UBT2000	175mm x 125mm x 75mm	112g
UBT2000DIN	105mm x 90mm x 60mm	376g

Ex-Or operates a genuine policy of continuous improvement. You may expect the specification to be regularly enhanced. For latest technical information, please visit www.ex-or.com