UBT2000DIN - Digital Universal Bus Transceiver

Only suitably qualified personnel should install this equipment. The UBT2000DIN 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.

Fixing

The UBT2000DIN is designed to be DIN Rail mounted. By extending the two plastic fixing wings the unit may be fixed directly to a panel using suitable screws.

Connection

The MLS Bus cable should be $1.5mm^2$ twisted pair unscreened. The digital output cable should be $1.5mm^2$ 2-core flex unscreened. The mains supply terminals are suitable for $1 \times 4mm^2$ or $2 \times 2.5mm^2$ cable. For connection options please see overleaf; also MLS Wiring Guide AN4001.

Important Additional Notes

- 1. All terminals on this product are provided for final connections. It is not intended that the product be used as a junction box for looping cables.
- 2. A means for disconnection must be incorporated in the fixed wiring in accordance with the current wiring regulations.

Technical Data

MLS CABLE: 1.5mm² unscreened twisted-pair: see Application Note AN4001 RANGE TO HP2000: 0.2m (8 inches)

OPERATING VOLTAGE: 230V 50Hz (UK & Europe)

PRODUCT RATING & RECOMMENDED CIRCUIT PROTECTION: 10 Amps MAXIMUM RECOMMENDED LOAD: 10 Amps

Incandescent lamps: 1500W max (at 230V) DIGITAL DIMMING OUTPUT LOAD: up to 20 BALLASTS POWER CONSUMPTION: <10W

WEIGHT: 376a

SIZE: 105mm x 90mm x 60mm

This device presents a load of 1 unit to the MLS Bus.

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Commissioning a UBT using the HP2000

When commissioning a UBT, the HP2000 should be held at a shorter distance from the unit than for detectors, ie not more than 0.2m away from the infrared transmitter and receiver which are positioned just below the MLS bus connections.

- 1. Switch on HP2000 by pressing the red power button.
- 2. Point HP2000 at the UBT and press the DOWNLOAD button. The HP2000 will confirm the product's identity and call up the correct menu of parameters and their current settings.
- 3. Use a combination of UP, DOWN, FORWARD and BACK buttons to navigate the parameter menu, selecting options for each shown. (See Tips below.)
- 4. When options for all parameters have been selected, point the HP2000 at the UBT and press the UPLOAD button. The luminaire(s) will switch off briefly during the programming process and the HP2000 shows DATA OK to confirm operation.
- 5. After a short period of inactivity (default 5 minutes), the HP2000 hibernates retaining the most recent settings.

Tips

- i) Where there are only two options such as ON/OFF, a double click of the OK button toggles between them.
- Where there are multiple options, a double click of the OK button recalls a list of all options for that parameter. Use the UP, DOWN and OK buttons to select.
- iii) Use the OK button to go forward (through the menus) without displaying help pages.
- iv) Press UPLOAD at any time to transfer all current settings from the handset to the product.

Please refer to HP2000 instructions for comprehensive commissioning details.



UBT2000DIN Universal Bus Transceiver for use with The Ex-Or MLS Digital



Installation and Commissioning Instructions

Note: HP2000 required for commissioning

(Please read these instructions fully before installation)

When commissioning, the following options are available (pre-sets shown in bold):

Function	Options	Description
Power-up	On/Off	Sets the digital output and relay state at power-up
		irrespective of occupancy.
Response	Auto/	Auto: switches on and off automatically.
	Semi-auto	Semi-auto: requires input commands on inputs 1-3 or the
		MLS Bus to switch on but switches off automatically.
Min on-time	No/Yes	If set to Yes, the luminaires stay on for at least 20 minutes
		regardless of the Off delay. Once the Minimum on-time
		has elapsed, the programmed Off delay is reinstated.
Off delay	5-60 min	Off delays are programmable in 5 minute steps with a
	20 min	10 second walk-test option.
Bus connect	Yes/No	Selecting No electronically disconnects the unit from the
		bus.
Zones	1 to 50	Seven zones are listed which can be programmed at the
	Pre-set to	time of commissioning. Detectors programmed to the
	(no zone)	same zone switch on or stay on when movement is
		detected anywhere in that zone. The 5th, 6th and 7th
		entries in the list may also be programmed as Common
		Zones or Global Zones (see Note 3 overleaf re Global
		Messages).
Input 1-3	Various	When the switch inputs go active, the programmed
	Sustain	command is transmitted to the zones in the UBT's list.
Start lamps	Min/Max	Selects the digital dimming output at power-up which then
		adjusts to the required state.
Entry scene	1-6	Choose scene 1-6 which is selected when the area is first
	Scene 1	occupied.
Fade to off	No/Yes	After the Off delay, digital dimming output either switches
		off or fades to off gradually over a few minutes.
Vacant	Off	Switch off after off delay.
	Scn 6	Go to Exit Scene (Scene 6) until next occupancy.
	Scn 6 3 hr	Go to Exit Scene (Scene 6) for 3 hours then switch off.
	Scn 6 bld	Go to Exit Scene (Scene 6) until building is vacated then
		switch off.
User remote		Simulates HC5 functions.
Request		Extracts information regarding product type and current
download		settings from Ex-Or device.
Programme all		Transmits all programme parameters.

USING THE UBT AS AN INTERFACE DEVICE (TRANSMITTER MODE)*



Examples of Remote Inputs to MLS Digital

Neutral



Examples of Outputs to Remote Device from MLS Digital



Suitable for: 'Switch On' Security Patrol Pattern