

## DLC1000 KNX LIGHTING CONTROLLER

Energy efficient, lightweight and compact KNX compliant lighting control module

The DLC1000 lighting control module is a KNX certified device that meets the needs of the modern eco-friendly environment.

Housed in lightweight aluminium and using switched mode power supplies that eliminate heavy transformers, the DLC1000 reduces power consumption and waste heat.

The DLC1000 has nine universal outputs supporting switched-circuit lighting control together with analogue (1-10V) and DSI digital dimming.

Two additional outputs provide switching only (for signage, corridors

etc.) All outputs utilise Wieland GST connectors.

Eight binary inputs for volt free or open collector inputs along with four analogue inputs utilising RJ45 connectors

**Tired of proprietary solutions that tie you to a single supplier?**

Certification to the KNX International Standard (ISO/IEC 14543-3) as well as European Standard (CENELEC EN 50090 and CEN EN 13321-1) and Chinese Standard (GB/Z 20965) ensures the DLC1000 Lighting Controller is open and future proof.

The DLC1000 can be combined with over 7,000 other KNX certified products made by over 100 manufacturers worldwide – the KNX trademark logo guarantees their interworking and interoperability.

KNX certification also means the DLC1000 Lighting Controller can be commissioned by any of the over 11,000 independent KNX certified partners around the world.

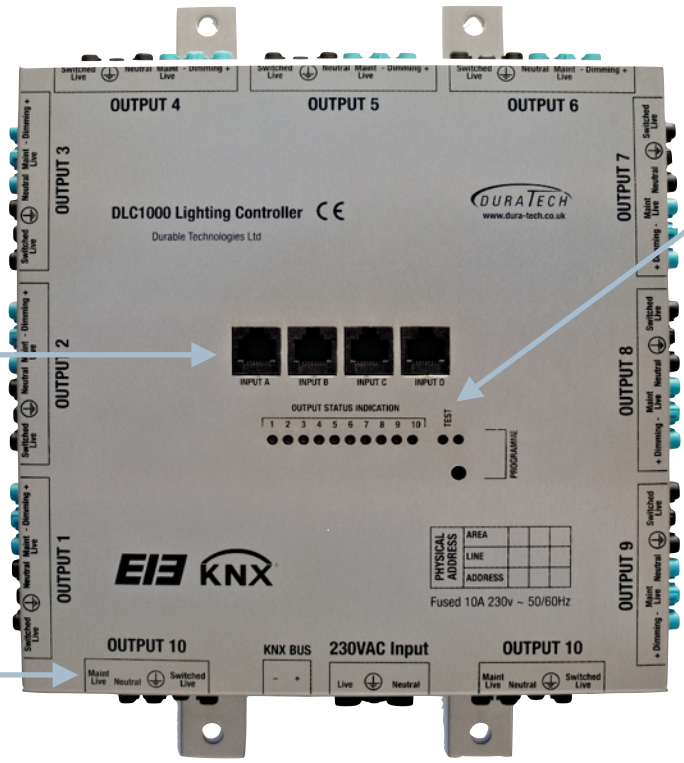
With its unique combination of market leading features, excellent energy efficiency and KNX compliant interoperability, the DLC1000 Lighting Controller is the only choice for today's commercial building lighting control needs.

# FEATURES AND BENEFITS

ENERGY EFFICIENCY	
<b>Integrated Presence Detection Timers</b> X 4	Light switches on when occupancy sensor detects movement indicating occupancy and will automatically switch off after movement ceases.  Works in conjunction with Daylight Linking and Constant Light.
<b>Integrated Absence Detection Timers</b> X 4	Light switches on and off from a retractive switch but the occupancy sensor prevents the light from being left on after occupancy.  Works in conjunction with Daylight Linking and Constant Light.
<b>Daylight Linking Inputs</b> X 4	Monitors the availability of daylight and automatically switches lighting off when sufficient daylight is available to illuminate the area. Switches lighting back on when daylight falls below required level.
<b>Constant Light Processors</b> X 4	Monitors light level and adjusts lights automatically to maintain steady light throughout the day.
<b>Floating Logic Gate</b> With 8 Inputs	AND, OR, XOR, NAND, NOR, NXOR logic operations.  Can be used to provide corridor linking, two-way conventional switching or turn exit signs off when general lighting is on etc.
<b>Light Moods / Scenes</b> X 8 On Each Output	Enables scene setting for presentation and reduces light loads during out-of-hours cleaning, maintenance etc.
<b>Forced Light Output</b>	Hold off the majority of lights during night time security walk rounds.
FACILITIES MANAGEMENT	
<b>Fast, Simple Installation</b>	Wieland connectors used throughout. Compatible with Electrak Buscom Trunking, Weiland Gesis and conventional wiring.
<b>Resettable Individual Timers On Each Output</b>	Monitoring of lamp performance enabling planned maintenance before lamp failures.
<b>Emergency Light Test</b>	Test of emergency lighting with other lights responding as required e.g. no response, dim, off etc.
<b>Current Sensing On Each Output</b>	Automatic notification of lamp failure on any type of light.
<b>Inhibit Objects For All Inputs</b>	Suitable for temporarily disabling switches in public areas etc.
<b>Load Shedding</b>	Turn off and lock non essential lighting circuits in response to event e.g. when supplied by generator.
INTEROPERABILITY	
<b>Independently Tested and Conforms to:</b>	<ul style="list-style-type: none"> <li>▶ CEN EN 13321-1</li> <li>▶ ISO/EIC 14543-3</li> <li>▶ GB/Z 20965</li> </ul>
<b>Open Standard</b>	No more manufacturer lock-in.  Works with over 7,000 shutter control, security systems, heating, ventilation, air conditioning, monitoring, alarming, water control, energy management and metering solutions from over 100 manufacturers world wide.  See <a href="http://www.knx.org">www.knx.org</a> for more details.
<b>Independent Engineering Support</b>	Design, integration and commissioning services available from over 11,000 independent KNX certified partners world wide.
LONG SERVICE LIFE	
<b>Warranty</b>	2 Years.

**Inputs X 4**  
 RJ45 Connectors  
 2 Binary Inputs  
 1 Analogue Input (1-10V)  
 Functions On/Off  
 Dim Up/Down  
 Presence Detection  
 Absence Detection  
 Blinds  
 Shutters  
 Scene Setting  
 Constant Light  
 Daylight Linking  
 Partition Switching

**Outputs x 2**  
 4 Pole Weiland GST  
 Black Connectors  
 230VAC switched  
 Maintained Live  
 Scene Storage  
 Current Monitoring  
 Hour Counter



**Indicators**  
 Output On/Off  
 Emergency Light Testing  
 Comms

**Outputs x 9**  
 6 pole Weiland GST  
 Black Blue Connectors  
  
 230VAC switched  
 1-10V Fluorescent  
 Dimming  
 DSI Digital Fluorescent  
 Dimming  
 Scene Storage  
 Maintained Live  
 Current Monitoring  
 Hour Counter

LIGHTING CONTROLLER DATA SHEET		
<b>CATALOGUE NUMBER</b>	DLC1000	
<b>CERTIFICATION</b>	KNX: CEN EN 13321-1	ISO/IEC 1453-3 GB/Z 20965
<b>VOLTAGE SUPPLY</b>	230VAC 50HZ / 60HZ	
<b>MAXIMUM LOAD</b>	EXTERNALLY ACCESSIBLE 10A FUSED	
<b>DIMENSIONS (MM)</b>	215 X 215 X 72	
<b>WEIGHT</b>	1.29 KG	
<b>CONFORMANCE</b> EMC COMPLIES WITH:	KNX STANDARD VOLUME 4, PART 2:2004 EN 50090-2-2:1996 EN 61000-3-2:2006 EN 61000-3-3:1995	CE CLIMATIC CONDITION CLASS 3K4 (5°C TO 40°C) IP RATING 4X
<b>MOUNTINGS</b>	4 X MOUNTING FEET	OTHER MOUNTING OPTIONS AVAILABLE
<b>OUTPUTS X 9</b> 6 POLE WEILAND GST BLACK BLUE CONNECTORS	230VAC SWITCHED 1-10V FLUORESCENT DIMMING DSI DIGITAL FLUORESCENT DIMMING	MAINTAINED LIVE CURRENT MONITORING HOUR COUNTER SCENE STORAGE
<b>OUTPUTS X 2</b> 4 POLE WEILAND GST BLACK CONNECTORS	230VAC SWITCHED MAINTAINED LIVE CURRENT MONITORING	HOUR COUNTER SCENE STORAGE
<b>INPUTS X 4</b> RJ45 CONNECTORS 2 BINARY INPUTS 1 ANALOGUE INPUT (1-10V)	ON/OFF DIM UP/DOWN PRESENCE DETECTION ABSENCE DETECTION BLINDS SHUTTERS	SCENE SETTING CONSTANT LIGHT DAYLIGHT LINKING PARTITION SWITCHING
<b>INDICATORS</b>	OUTPUT ON/OFF EMERGENCY LIGHT TESTING	COMMS

## DLS1000 SENSOR HEAD

The DLS1000 Sensor Head is a companion product to the DLC1000 Lighting Controller and is used for movement and daylight sensing in commercial applications.

The DLS1000 has:

- A small, robust design.
- High RFI immunity.
- High presence detection sensitivity.

In conjunction with the DLC1000 Lighting Controller the DLS1000 Sensor Head is used for presence detection, absence detection, daylight linking and constant illumination.

The discreet, cast-aluminium mounting ensures high survivability from accidental impacts.

The DLS1000 has EN compliance and a long service life backed by a 2 year warranty.



50 pence for illustrative purposes only.

### COVERAGE

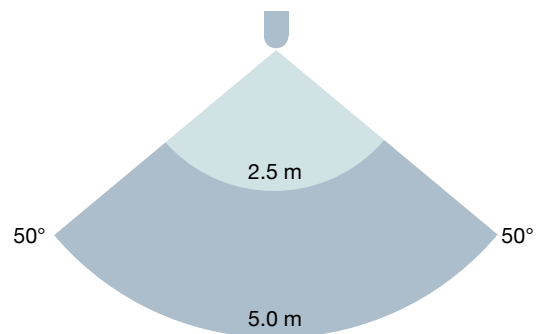


Illustration not to scale.

SENSOR HEAD DATA SHEET	
CATALOGUE NUMBER	DLS1000
CERTIFICATION	CENELEC EN 50090 <span style="float: right;">CE</span>
VOLTAGE SUPPLY	SELV 12V
DIMENSIONS (MM)	30 X 30 X 40
WEIGHT	38 GRAMMES
CONFORMANCE	EMC COMPLIES WITH EN50090-2-2 CLIMATIC CONDITION CLASS 3K4 (5C TO 40C) IP RATING 4X
MOUNTING	SPRING CLIPS X 2 28 MM MOUNTING HOLE
OUTPUT	RJ10
INDICATORS	TRIGGER / DETECTION INDICATOR



E & O.E.

For further details  
contact Durable Technologies

**Durable Technologies Ltd.**  
www.dura-tech.co.uk

E/ info@dura-tech.co.uk  
T/ +44 1429 239 656  
F/ +44 871 433 6587

Venture Court  
Queens Meadow Business Park  
Hartlepool TS25 5TG  
United Kingdom