FIRE RESISTANT CABLES

FP200 GOLD® BS7629-1:2008





DATA CAPABILITY

INSTALLATION

Data Sheet 1

The white option cable would be used and it would be painted to match the surface to which it was clipped









original highly durable and dressable, easy to terminate and install fire resistant cable, using the unique $Insudite^{^{\text{\tiny{TM}}}} \quad damage \quad resistant \quad insulation \quad system. \quad Approved$ for fire detection and fire alarm critical signal paths to BS5839-1:2002+A2:2008 and voice alarm systems to BS5839-8:2008 in 'standard' application areas, and emergency lighting systems to BS5266-1:2005.

The changes to cable test methods and requirements first introduced by BS5839-1:2002+A2:2008 "Fire detection and fire alarm systems for buildings - Part 1: Code of practice for system design, installation, commissioning and maintenance" mean that fire resistant cables must now be approved against new test requirements.

In addition to approvals to BS7629-1 and BS6387 Category CWZ, FP200 Gold® has received BASEC and LPCB approval to BS5839-1:2002 for 'standard' applications. This includes approval to BS EN 50200 Class PH30 and the new integrated fire, shock and water test BS8434-1 for 30 minutes. FP200 Gold® is also approved to BS EN 50200 Class PH60 as required by BS5266-1:2005.

All Prysmian FP200Gold® cables are manufactured under an ISO 9001 Quality System certified by BASEC and LPCB.

- FP200 Gold® has excellent data/signal transmission characteristics making it ideal for voice alarm, addressable and networked systems.
- In accordance with BS5839-1 and BS5266-1 requirements, cables must be supported by a fixing that can withstand the same fire conditions as the cable. To meet this requirement the use of Prysmian AP LSOH® coated metal P-clips or the new FP Firefix[™] rapid fixing system is recommended.

FP200Gold should be installed in accordance with BS7671/IEE Wiring Regulations and/or any other appropriate national regulations or codes. It is suitable for indoor and outdoor installation in suitably protected environments and particularly appropriate for surface wiring, direct burial in plaster, tray or other installations requiring a dressable product.

CABLE CHARACTERISTICS











BS EN 50267-2-1



Low Smoke Emissions BS EN 61034-2



BS EN 50200 PH30 & PH60³ BS EN 50200 Annex E





FIRE RESISTANT CABLES

300/500V

KEY APPLICATIONS

- Fire detection and fire alarm systems for buildings
- > Voice alarm systems
- > Emergency lighting
- Other essential service circuits

CABLE DESCRIPTION

CONDUCTOR

Plain annealed copper solid $(1.0 - 2.5 \text{ mm}^2)$ or stranded (4.0 mm^2) circular conductor complying with BS EN 60228 class 1 or class 2.

INSULATION

High performance damage resistant Insudite™. British Standard Type EI5.

CORE IDENTIFICATION

HARMONISED CORE IDENTIFICATION:

o o brown-blue | o o o brown-black-grey

o o o blue-brown-black-grey

NON HARMONISED CORE IDENTIFICATION:

o o red-black | o o o red-yellow-blue

o o o o black-red-yellow-blue

Non harmonised colours to special order.

SCREEN/CPC

Laminated aluminium tape screen bonded to sheath and in contact with full size tinned annealed copper circuit protective conductor which provides automatic screen earthing.

SHEATH

Robust thermoplastic LSOH sheath; Colour - White or Red. Other colours to special order. For external exposure the use of a white sheath is recommended.

Nominal	Conceptual	Mean	Approximate	Maximum	Current	Current	Volt drop	Reco	mmended acces	sories
cross	Construction	overall diameter	cable weight	conductor	rating DC or single phase	rating DC or single phase	DC or single		lour - White or	
area		didiffeed	weight	at 20°C	AC Enclosed	AC Clipped direct	AC	fixing	² Nylon LSOH [®]	FP Firefix™ fixing
mm²	no./mm	mm	kg/km	ohms/km	Amps	Amps	mV/A/m	clips	gland	clips
				Two	core					
1.0³	1/1.13	8.0	78	18.1	13	15	44	AP7	251/GL2520	UFPNF02
1.5	1/1.38	8.1	93	12.1	16.5	19.5	29	AP7	251/GL2520	UFPNF01* UFPNF02
2.5	1/1.78	9.5	140	7.4	23	27	18	AP9	251/GL2520	-
4.0	7/0.85	11.6	195	4.6	30	36	11	AP11	252/GL2520	-
				Three	core					
1.0³	1/1.13	8.2	88	18.1	13	15	44	AP7	251/GL2520	UFPNF02
1.5	1/1.38	8.4	116	12.1	16.5	19.5	29	AP8	251/GL2520	UFPNF04
2.5	1/1.78	10.4	180	7.4	23	27	18	AP10	252/GL2520	-
4.0	7/0.85	12.3	248	4.6	30	36	11	AP12	252	-
				Four	Core					
1.0³	1/1.13	8.5	107	18.1	13	15	44	AP8	251/GL2520	UFPNF04
1.5	1/1.38	10	143	12.1	16.5	19.5	29	AP9	251/GL2520	-
2.5	1/1.78	11.9	225	7.4	23	27	18	AP11	252/GL2520	-
4.0	7/0.85	13.5	310	4.6	30	36	11	AP13	254	

Notes to table * Single clip

FP200 Gold® is also available in multi-core versions (7,12 & 19 core)

Minimum recommended installation temperature 0° C. Installation methods for current rating in accordance with BS7671/IEE Wiring Regulations. The tabulated ratings are based upon a 30° C ambient temperature and 70° C operating temperature. For other ambient temperatures or where cables are grouped together, appropriate rating factors should be applied.

Temperature ratings factor

$Ambient\ Temperature ^{\circ}C$	25	30	35	40	45	50
Rating factor	1.03	1.00	0.94	0.87	0.79	0.71
Rating Factors for Grouping	s					
Number of circuits	2	3	4	5	6	7
Rating factor	0.80	0.70	0.65	0.60	0.57	0.54



¹ Recommended clip spacing 300 mm horizontal and 400mm vertical. 2 Brass glands may be used as an alternative.

³ BS5266-1:2005 clause 9.2.3 states a minimum cross-sectional area of conductor of 1.5mm²



Energi Savr Node QS...

A versatile, energy saving lighting control solution that is easy to install and easy to expand







INTRODUCING ENERGI SAVR NODE QS

WHAT IS ENERGI SAVR NODE QS™?

Energi Savr Node QS is a simple, programmable solution for controlling light and saving energy in any commercial space. Use Energi Savr Node QS to connect DALI (digitally addressable lighting interface), 0-10 V or switching ballasts to wired or wireless occupancy sensors, daylight sensors, and controls for total light control.



WHAT ARE THE BENEFITS?

EASY TO INSTALL AND MAINTAIN

- Easy and intuitive system programming application designed for the Apple iPhone or iPod touch mobile digital devices¹
- For simple applications, preconfigured modes reduce installation time and eliminate system programming
- Automatic ballast replacement eliminates the need for system reprogramming when replacing ballasts (feature available only on DALI version)
- Wireless sensors and controls can be easily retrofit with no need for rewiring

EXPANDABLE

- Control a single space, up to an entire floor with one module and add additional Energi Savr Node QS modules to control multiple floors
- Modules can link with Quantum® for total light management throughout an entire building

VERSATILE

- DALI ballast control offers flexibility for reconfiguring frequently changing spaces (feature available only on DALI version)
- Great for retrofit solutions or new construction—install each module locally—no need to connect to a central panel

ENERGY-SAVING AND ENVIRONMENTALLY FRIENDLY

 Reduce lighting energy use with dimming, occupancy sensing, and daylight harvesting

2 Lutron www.lutron.com/asia

369607e

Wired International seeTouch® Keypads Insert Style

Model Numbers

Base Units

Base Units				
HQWIS-NB-NONE	Keypad without Wallplate /Button Kit			
HQWIS-NBIR-NONE	IR Keypad without Wallplate/Button Kit		-	
		HWIS-2B-I-XX*	HWIS-3B-I-XX*	HWIS-4B-I-XX*
Button/Wallplate Ki	ts			,
HWIS-2B-I-XX*	2 button			
HWIS-3B-I-XX*	3 button		-	
HWIS-4B-I-XX*	4 button			
HWIS-5BRL-I-XX*	5 button with Raise/Lower	HWIS-5BRL-I-XX*	HWIS-5BIR-I-XX*	HWIS-6BRI -I-XX*
HWIS-5BIR-I-XX*	5 button with Raise/Lower and IR		TWWO OBJITTYOU	TIVIO OBILETTO
HWIS-6BRL-I-XX*	6 button with Raise/Lower			
HWIS-7BRL-I-XX*	7 button with Raise/Lower			
HWIS-8BRL-I-XX*	8 button with Raise/Lower			
HWIS-8BIR-I-XX*	8 button with Raise/Lower and IR	HWIS-7BRL-I-XX*	HWIS-8BRL-I-XX*	HWIS-8BIR-I-XX*
HWIS-10BRL-I-XX*	10 button with Raise/Lower			
Devlessment Butte	n Vita			
Replacement Butto				
SIB-2B-XX*-E	2 button	HWIS-10BRL-I-XX*		
SIB-3B-XX*-E	3 button	- TODIETION		

Ordering Example:

HQWIS-NB-NONE (Base Unit) and

HWIS-2B-I-AW (Wallplate/Button Kit)

4 button

5 button with

8 button with Raise/Lower and IR

Raise/Lower and IR

5 button with Raise/Lower

6 button with Raise/Lower

7 button with Raise/Lower

8 button with Raise/Lower

10 button with Raise/Lower

SIB-4B-XX*-E

SIB-5BRL-XX*-E

SIB-5BIR-XX*-E

SIB-6BRL-XX*-E

SIB-7BRL-XX*-E

SIB-8BRL-XX*-E

SIB-8BIR-XX*-E

SIB-10BRL-XX*-E

^{*&}quot;XX" in the model number represents color/finish code. See **Colors and Finishes** at end of document.

The relevant part of the BS EN 61439 series applies to the integration of mechanical and electrical components (switching devices, control devices, busbars, functional units, etc.), into an enclosure. Hager systems such as consumer unit, distribution board and panel board ranges are certified to the appropriate part of the BS EN 61439 series. When selecting other device / enclosure arrangements our Tailored Solutions team can provide a verified solution - please contact technical support for assistance on 01952 675689.

DIN Rail Enclosures

Characteristics:

- One, two or three row 8-66 module enclosures, fitted with DIN rails to accept any combination of Hager devices. Ample wiring space, with provision to accept RCBO's.
- Conforms to BS EN 62208. $I_{\rm NA}$ = 63A/100A, $I_{\rm NC}$ = 63A, $I_{\rm CC}$ = 10kA
- Full complement of earth and neutral terminal bars to accept up to 16mm² cable.
- Suitable for cable entry on all sides and back.
- For dimensions see page 68.

Description	Size	Cat ref.
1 Row 8 Modules	3	JK008
1 Row 12 Modules	4	JK012
1 Row 16 Modules	5	JK016
1 Row 22 Modules	7	JK022
2 Row 24 Modules (2 x 12)	4 (2)	JK024
2 Row 32 Modules (2 x 16)	5 (2)	JK032
2 Row 44 Modules (2 x 22)	7 (2)	JK044
3 Row 66 Modules (3 x 22)	7 (3)	JK066



JK008

Invicta 3 SP&N Distribution Boards

Characteristics:

- Boards are available with 14 & 29 outgoing ways. The range comes with a 100A 2 pole switch disconnector to accept 50mm² cable. Ample wiring space, with provision to accept RCBO's.
- Conforms to BS EN 61439-3. $I_{\rm AA}$ = 63A/100A, $I_{\rm BC}$ = 63A, $I_{\rm CC}$ = 10kA Full complement of earth and neutral terminal bars to accept up to 16mm² cable.
- Suitable for cable entry on all sides and back.
- Enclosures are available with plain or glazed doors.
- For dimensions see page 68.

1		

JK114AG

Description	Cat ref. Plain Door	Cat ref. Glazed Door
1 Row, 14 Way 100A Switch Disconnector Incomer	JK114A	JK114AG
2 Row, 29 Way 100A Switch Disconnector Incomer	JK129A	JK129AG

Type A SP&N Distribution Board SPD Kit Type 2

- Consists of: 6mm², live & earth cables, 1x Double Pole SPD's.

Poles	I _n kA L-N	I _n kA N-PE	U _p kV	Width (mm)	Cat ref.
2	5	15	≤ 1.2	35	VM02SPD



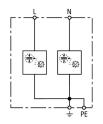
VM02SPD



DSP 12 SH 240 (902 670)

- Ready-to-install equipment for use acc. to the lightning protection zone concept as required in BS EN 62305-4
- Quick and easy installation, application-optimised combined lightning current and surge arrester
- High lightning current discharge capacity l_{imp} up to 25 kA (10/350 µs)
- Coordinated lightning current and surge arrester
- Operating state / fault indication by indicator flag in the inspection window
- Enclosure with transparent cover, degree of protection: IP 65





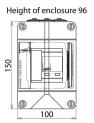


Figure without obligation

Basic circuit diagram DSP 12 SH 240

Dimension drawing DSP 12 SH 240

Mains connection box kit for single-phase 240 V TN systems consisting of an IP 65 enclosure equipped with DEHNshield surge arrester (Part No. 941 200).

_			_	
Δ	rre	ster	r da	ta

Туре	DSP 12 SH 240
Part No.	902 670
SPD according to EN 61643-11 / IEC 61643-1/-11	type 1 / class I
Energy coordination with terminal equipment	type 1 + type 2
Energy coordination with terminal equipment (≤ 5m)	type 1 + type 2 + type 3
Nominal a.c. voltage (U _N)	230 V
Max. continuous operating a.c. voltage (U _c)	255 V
Lightning impulse current (10/350) [L+N-PE] (I _{total})	25 kA
Specific energy [L+N-PE]	156.25 kJ/ohms
Lightning impulse current (10/350) [L, N-PE] (I _{imp})	12.5 kA
Specific energy [L,N-PE] (W/R)	39.06 kJ/ohms
Nominal discharge current (8/20) (I _n)	12.5 / 25 kA
Voltage protection level [L-PE]/[N-PE] (U _P)	≤ 1.5 /≤ 1.5 kV
Follow current extinguishing capability a.c. (I _{fi})	25 kA _{eff}
Follow current limitation/Selectivity	no tripping of a 32 A gL/gG fuse up to 25 kA _{rms} (prosp.)
Response time (t _A)	≤ 100 ns
Max. mains-side overcurrent protection	160 A gL/gG
TOV-Spannung [L-N] (U _T)	440 V / 5 sec.
TOV characteristic	withstand
Operating state/fault indication	green / red
Number of ports	1
Cross-sectional area (L, N, PE, ≟) (min.)	1.5 mm ² solid / flexible
Cross-sectional area (L, N, PE, ±) (max.)	35 mm ² stranded / 25 mm ² flexible
For mounting on	35 mm DIN rails acc. to EN 60715
Housing material	thermoplastic, red, UL 94 V-0

Enclosure data	
Туре	DSP 12 SH 240
Part No.	902 670
Technical data for the insulating enclosure	-
- Operating temperature range (T _U)	-25°C+40°C
- Degree of protection protection	IP 65
- Cover	transparent door
- Colour of enclosure	grey
- Cable entry	integrated elastic seal membrane for entering cables
- Capacity	3 module(s), DIN 43880
- Material	plastic
– Dimensions (W x H x D)	100 x 150 x 96 mm
Weight	0 g
Customs tariff number	85369030
GTIN	4013364149977
PU	1 pc(s)

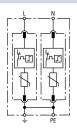
We reserve the right to introduce changes in performance, configuration and technology, dimensions, weights and materials in the course of technical progress. The figures are shown without obligation.



DSP 2 P 240 (902 650)

- Equippped with surge arrester DEHNguard M ...
- High discharge capacity due to heavy-duty zinc oxide varistors
- High reliability due to "Thermo Dynamic Control" SPD monitoring device
- Easy replacement of protection modules due to module release button
- Operating state/fault indication by indicator flag in the inspection window
- Enclosure with transparent cover, degree of protection IP 65





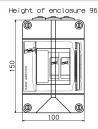


Figure without obligation

Basic circuit diagram DSP 2 P 240

Dimension drawing DSP 2 P 240

Mains connection box kit for the single-phase 240 V TN system consisting of IP 65 enclosure equipped with surge arrester DEHNguard modular (Part No. 952 200).

Arrester data

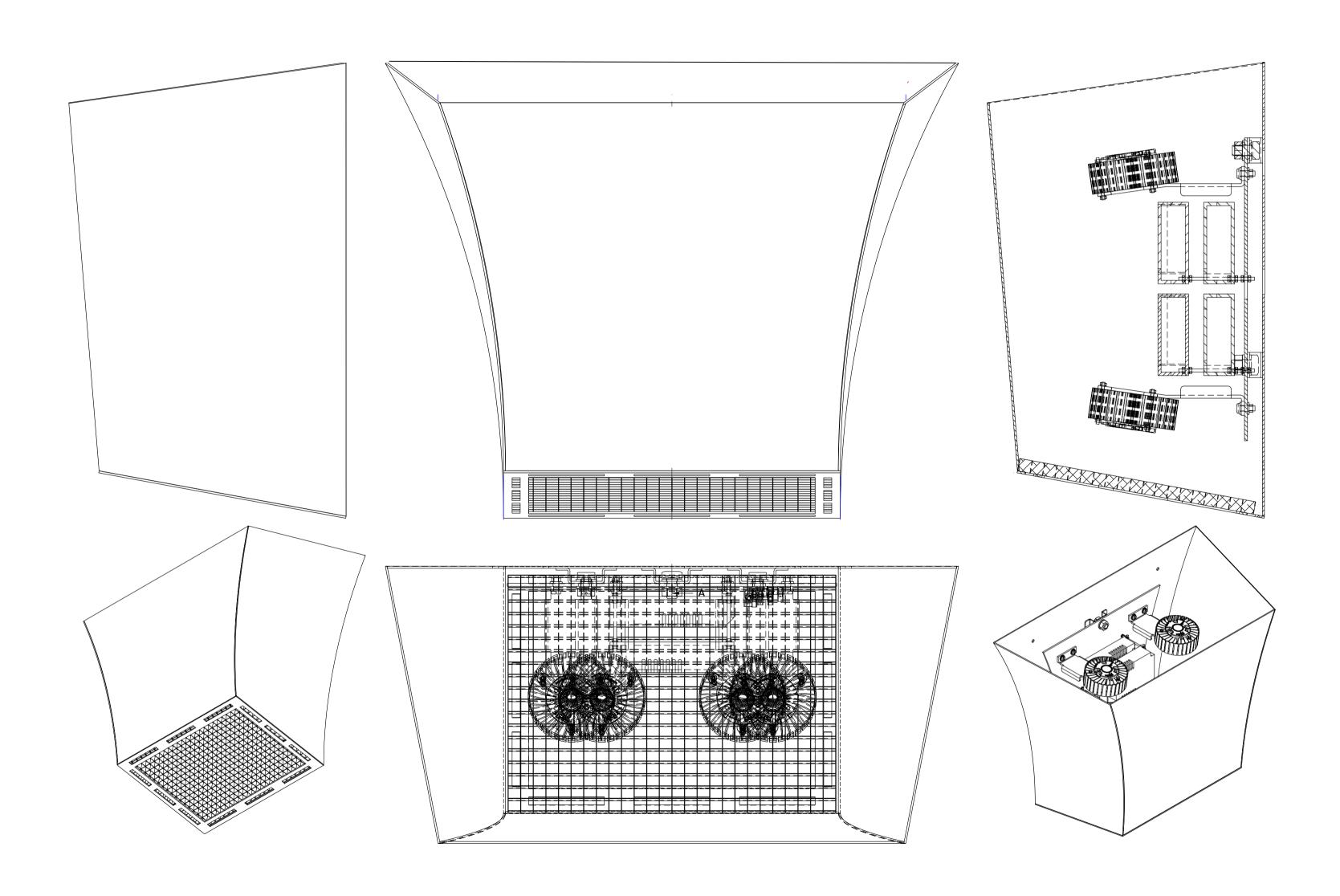
Туре	DSP 2 P 240
Part No.	902 650
SPD according to EN 61643-11 / IEC 61643-1/-11	type 2 / class II
Nominal a.c. voltage (U _N)	240 V
Power supply system	TN system
Max. continuous operating a.c. voltage (U _c)	275 V
Nominal discharge current (8/20) (In)	20 kA
Maximum discharge current (8/20) (I _{max})	40 kA
Voltage protection level (U _P)	≤ 1.25 kV
Voltage protection level at 5 kA (U _P)	≤1 kV
Response time (t _A)	≤25 ns
Max. mains-side overcurrent protection	125 A gL/gG
Short circuit withstand capability for max. mains-side overcurrent protection	50 kA _{eff}
Temporary overvoltage (TOV) (U _T)	335 V / 5 sec.
TOV characteristic	withstand
Operating temperature range [parallel]/[series] (T _U)	-40°C+80°C
Operating state/fault indication	green / red
Number of ports	1
Cross-sectional area (min.)	1.5 mm² solid/flexible
Cross-sectional area (max.)	35 mm² stranded / 25 mm² flexible
Housing material	thermoplastic, red, UL 94 V-0

Enclosure data

Туре	DSP 2 P 240
Part No.	902 650
Technical data for the insulating enclosure	-
- Operating temperature range (T _U)	-25°C+40°C
- Degree of protection protection	IP 65
- Shock resistance according to EN 50102	IK 07 (2 Joule load)
- Cover	transparent door
- Colour of enclosure	grey
- Cable entry	3 elastic seal membranes for cable entry
- Capacity	3 module(s), DIN 43880
- Material	polystrene
– Dimensions (W x H x D)	100 x 150 x 96 mm
Weight	0 g
Customs tariff number	85363030
GTIN	4013364117839
PU	1 pc(s)

We reserve the right to introduce changes in performance, configuration and technology, dimensions, weights and materials in the course of technical progress. The figures are shown without obligation.

NOTE – Our sample fitting demonstrated was 560mm at its widest point across the back of the fitting and the proposed one for use would be circa 470mm or 15% smaller across all measurements.



Two x 5000Lm chipsets would be used for the downlighting and two x 3000Lm chipsets would be used for the uplighting.

The uplighting and downlighting would be controlled to the desired outputs independently from the other.

The uplighting would have a glass dust cover to protect from any settling dust.





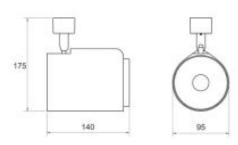


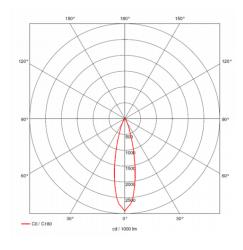


Technical Data Sheet

Range Name:	Prospot
Product Type:	Spotlights
Description:	Prospot LED-2500lm-24°-Warm White-Black-Surface Mounting Plate-DALI Dimmable.Supplied with DALI 1 drivers.Check compatibility before purchase
Product Code:	T462524-BL/DD/930
Body Colour:	Black
Mounting:	Surface Mounted
Track Adaptor:	Surface - Surface Mounting Plate
Pendant Stem Length(mm):	-
Environment:	Interior
Size(mm)	140 x 95
Cut Out(mm):	-
Recessed Depth(mm):	-
Vertical Tilt(°):	90°
Horizontal Rotation(°):	355°
Light Source:	LED
Lamp Type:	Luminus LED
Lamp Included:	In Built
Lamp Base:	-
Lamp Life(Hours):	50000 hours
Lumen Output(Im):	3100lm
Colour Temperature(k):	3000k Warm White
CRI(Ra):	92
Beam Angle(°):	24°
Lense:	-
Voltage(V):	230VAC
Total System Power(W):	33.1W
Lamp Current(A):	0.144
Power Factor:	-
Luminaire Efficacy(Im/W):	76 lm/W
Class:	Class 1
Gear:	Built In
EAN Code:	-
Dimmability:	DALI Dimmable
Emergency:	-
IP Rating:	IP20
Weight(kg):	1.1kg
Housing Material:	Aluminium
Material Finish:	Powder Coated







Images, line drawings and measurements illustrated may, in some cases be approximate and for guidance only. Colour finishes will be maintained as accurately as possible but matching cannot be guaranteed.

Illuma Lighting are continually developing and improving its products. Technical specifications subject to change without prior notice.

For full terms and conditions visit: https://www.illuma.co.uk/terms.htm



Technical Data Sheet

Guarantee: 5 Year Guarantee

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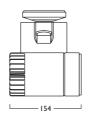
Data Sheet 9



Azuma® Midi

LED CRI Surface	-'Ā- 80	\$	□■		K		•	•		LED CI Surfac		☆ □	•	K		•		
12W 19W 25W	LED LED LED	IS477 IS477 IS477	_ _ _	LED LED LED	_ _ _	12 19 25	_ _ _	+ + +	447 447 447	12W 19W 25W	LED LED LED	IS478 IS478 IS478	LED LED LED	_ _ _	12 19 25	_ _ _	+ + +	448 448 448
Single Ci	rcuit Track									Single	Circuit Track							
12W 19W 25W	LED LED LED	TS477 TS477 TS477	_ _ _	LED LED LED	_ _ _	12 19 25	_ _ _	+ + +	447 447 447	12W 19W 25W	LED LED LED	TS478 TS478 TS478	LED LED LED	_ _ _	12 19 25	_ _ _	+ + +	448 448 448
Three Ci	rcuit Track									Three	Circuit Track							
12W 19W 25W	LED LED LED	TT477 TT477 TT477		LED LED LED	_ _ _	12 19 25	_ _ _	+ + +	447 447 447	12W 19W 25W	LED LED LED	TT478 TT478 TT478	LED LED LED	_ _ _	12 19 25	_ _ _	+ + +	448 448 448
DALI Tra	ck									DALI 1	rack							
12W 19W 25W	LED LED LED	TD477 TD477 TD477		LED LED LED	_ _ _	12 19 25	_ _ _	+ + + +	447 447 447	12W 19W 25W	LED LED LED	TD478 TD478 TD478	LED LED LED	_ _ _	12 19 25	_ _ _	+ + + +	448 448 448

___ 93 Ø ___ 24



- Standard

- Available in a choice of lumen outputs, delivering up to 4705 lumens
- Efficacies up to 156 lm/W
- O Single point Zhaga Book 3 LED
- Medium beam reflector as standard
- Life expectancy in excess of 60,000 hours (L90 B10)
- Colour stability within 3 MacAdams
- Protective glass fitted as standard
- Complementary Wall Lights available
- Dimmable Three Circuit Track versions use Three Phase adaptors permitting only single circuit control. The Track requires the relevant dimming wiring.
- DALI Track versions are eminently suited to diverse, adaptable lighting scenarios. The Track requires the relevant dimming wiring.
- Wireless Lighting Control available, see Connected video for full overview
 - A Integral Driver/Remote
 - J Switch Dim Not available in Single Circuit Track
 - **S** DALI Dim Not available in Single Circuit Track
 - L DALI Bluetooth
 - 3 Warm (3000K) 4 Neutral (4000K)
 - **1** White (RAL 9010) **2** Urban Graphite (RAL 7046) **3** Black (RAL 9005)

Reflector CRI 80 CRI 90 **537** Narrow Beam 15° 449

140 Standard Beam 25° 767 538 Wide Beam 39° 451 452

Baffle Option - Examples Shown on page 2

Tel: (0191) 280 9911 Email: technical@hacel.co.uk Web: www.hacel.co.uk

* All values provided in this document are subject to International standards and electronic components from leading suppliers which are subject to +/- 10% tolerance and apply at an ambient temperature of 25°C. Hacel Lighting look to constantly improve it's product and reserve the right to change specifications without prior notification.





Azuma® Midi

3 Warm White LED (3000K	3
Lumen Outpu	
LOF	
CR	
Total Power	
Power Facto	
Running Curren	
Inrush Current (Std	
Inrush Current (Dirr	
Efficacy	
Emergency Output (BLF	

Neutral White LED (4000K
Lumen Output
LOR
CR
Total Power
Power Factor
Running Current
Inrush Current (Std)
Inrush Current (Dim
Efficacy
Emergency Output (BLF)

CRI 80	12W	19W	25W
	2325 lm	3434 lm	4502 lm
	0.92	0.92	0.92
	80	80	80
	14.4W	21.1W	28.1W
	0.95	0.97	0.97
	0.06A	0.09A	0.13A
	3.5A (35us)	18A (210us)	24A (200us)
	2.71A (38us)	3.31A (43us)	5.33A (42us)
	148 lm/W	149 lm/W	147 lm/W
	N/A	N/A	N/A

CRI 80	12W	19W	25W
	2439 lm	3594 lm	4705 lm
	0.92	0.92	0.92
	80	80	80
	14.4W	21.1W	28.1W
	0.95	0.97	0.97
	0.06A	0.09A	0.13A
	3.5A (35us)	18A (210us)	24A (200us)
	2.71A (38us)	3.31A (43us)	5.33A (42us)
	155 lm/W	156 lm/W	154 lm/W
	N/A	N/A	N/A

CRI 90	12W	19W	25W
	1879 lm	2774 lm	3645 lm
	0.92	0.92	0.92
	90	90	90
	14.4W	21.1W	28.1W
	0.95	0.97	0.97
	0.06A	0.09A	0.13A
	3.5A (35us)	18A (210us)	24A (200us)
	2.71A (38us)	3.31A (43us)	5.33A (42us)
	120 lm/W	120 lm/W	119 lm/W
	N/A	N/A	N/A

CRI 90	12W	19W	25W
	2045 lm	3013 lm	3946 lm
	0.92	0.92	0.92
	90	90	90
	14.4W	21.1W	28.1W
	0.95	0.97	0.97
	0.06A	0.09A	0.13A
	3.5A (35us)	18A (210us)	24A (200us)
	2.71A (38us)	3.31A (43us)	5.33A (42us)
	130 lm/W	131 lm/W	129 lm/W
	NI/A	NI/A	NI/A

Options

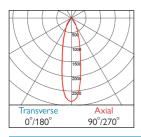
4

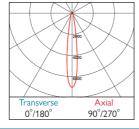
■ **Baffle** Option

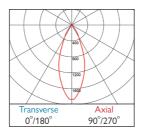


539 Anti Glare Baffle

Photometrics







447-448 DLOR: 0.92

449-450 DLOR: 0.92

451-452 DLOR: 0.90

Tel: **(0191) 280 9911** Email: technical@hacel.co.uk Web: www.hacel.co.uk V4 - 08/2024





CONCORD BEACON MUSE 3000K SM DALI BLACK

Item No: 2062593

Data Sheet 10

Concord

























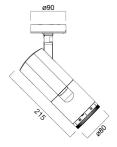


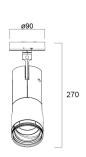


Simple and slick integral design with no driver box and without any visible screws New technology utilization for improved performance. Invisible in-track adaptor for an impressive architectural look Extremely precise light beams due to the high-quality lens Ø80mm die-cast aluminium body, Adjustable beam angle:between 8° - 55°, Textured black finishing colour Light color temperature: 3000K, warm light System power: 18W, Fixture lumen output: 980lm, efficacy: 55lm/W, Ra97 typical, LED chromacity: 2 step MacAdam ellipse LED source (SDCM2), IR/UV free light source without heat radiation Operating voltage 220-240V / 50-60Hz, DALI Surface mounting with surface mounting base. Electrical protection: Class II. Degree of protection: IP20, suitable for indoor environment only Horizontal rotation: 355°, vertical tilt: 90° Nominal product dimensions: D.80mmx215mm 5 years warranty. Suitable for ceiling surface mounting, and wall surface mounting

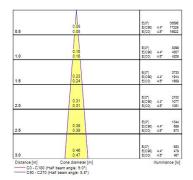
Technical Assets

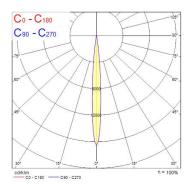
Dimensions (mm)





Photometrics





CONCORD BEACON MUSE 3000K SM DALI BLACK

Item No: 2062593 Concord

General data		Electrical data	
Product name	CONCORD BEACON MUSE 3000K SM DALI	Total power consumption (W)	18
Troduce name	BLACK	Current (A)	0.084
Technology	LED	Primary Supply/Product voltage - min	220.0
Cap/Base	N/A	(V)	
Housing	Aluminium	Primary Supply/Product voltage - max (V)	240.0
Mount	Ceiling surface mounting, Wall surface mounted	Lamp power factor	0.9
Fixture rating	Enclosed	THD (at 230 V, 50 Hz, full load, at 100% dimming level) ≤ xx.x %	10
General application	Museums & Galleries, Retail, Hospitality	Electrical protection	Class II
Operating temperature range (°C)	-10°C+35°C	Control gear type	LED driver constant current
ETIM Class	EC001744	Dimmable	Yes
Warranty	5 years	Dimming method	DALI
Optical data		Minimum dimming level (%)	1
· Useful luminous flux (Φuse)	1000	Drive current (mA)	500
Fixture luminous flux (lm)	980	Inrush Current (A)	16
Luminaire efficacy (lm/W)	55	Inrush Duration (µs)	100
LOR (%)	100	Energy Efficiency Class (A->G) of contained light source	F
Correlated colour temperature (k)	3000	Nominal Frequency (Hz)	50/60Hz
Light colour	Warm White	Max. products per 10A C Breaker	50
CRI (Ra)	97	Max. products per 16A C Breaker	70
Colour Variation Initial (SDCM)	SDCM2	Max. products per 16A B Breaker	55
Luminous Intensity (cd)	980	Lifetime data	•
Beam Angle (°)	55		100000
Distribution type	Symmetric	Lifespan L70 B50	100000
Photobiological Risk Group	RG1	Lifespan L80 B50	100000
		Lifespan L90 B50	49000

CONCORD BEACON MUSE 3000K SM DALI BLACK

Item No: 2062593

Concord

 GGCG	
,	/sical data

Housing colour	RAL 9005 - Jet black
IP rating	IP20
IK rating	IK02
Diffuser finish	Frosted
Diffuser material	Other
Reflector finish	Matt
Nominal Product Length (mm)	215
Nominal Product Width (mm)	80
Nominal Product Height (mm)	270
Nominal Product Diameter (mm)	80
Weight (kg)	1.02

Packaging

Product EAN number	5025768625932
Packaging single length / height (cm)	30.5
Packaging single width (cm)	13.5
Packaging single depth (cm)	20.5
DUN14 (inner)	05025768625932
Units per outer package	1
Packaging outer length / height (cm)	30.5
Packaging outer width (cm)	13.5
Packaging outer depth (cm)	20.5
Safety data	

Safety data

Glow Wire Test (°C)	650
Optimal operating condition (°C)	-10-35
Dry applications use only	Yes



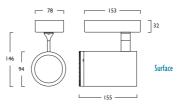


Aart® Midi

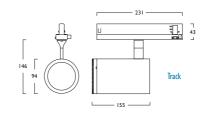
	u	•	•	u.				
	- \ \\\\\\\\				K		•	
LED CRI	80							
Surface								
14W 21W 25W	LED LED LED	IS1274 IS1274 IS1274	_ _ _	LED LED LED	_ _ _	14 21 25	_ _ _	587 587 587
Three Ci	rcuit Track	:						
14W 21W 25W	LED LED LED	TT1274 TT1274 TT1274	_ _ _	LED LED LED	_ _ _	14 21 25	_ _ _	587 587 587
DALI Tra	ck							
14W 21W 25W	LED LED LED	TD1274 TD1274 TD1274	_ _ _	LED LED LED	_ _ _	14 21 25	_ _ _	587 587 587

TT versions not suitable for use with Gear Types J & S TD versions not suitable for use with Gears Type A & L

	-☆-	\$			K			
LED CRI	90							
Surface								
14W	LED	IS1275	_	LED	_	14	_	588
21W	LED	IS1275	_	LED	_	21	_	588
25W	LED	IS1275	_	LED	_	25	_	588
Three Ci 14W 21W 25W	rcuit Tracl LED LED LED	TT1275 TT1275 TT1275		LED LED LED	_ _ _	14 21 25	_ _ _	588 588 588
DALI Tra	ack							
14W	LED	TD1275	_	LED	_	14	_	588
21W	LED	TD1275	_	LED	_	21	_	588
25W	LED	TD1275		LED		25		588



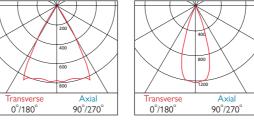




230V IP 90° A 1.6 kg

- Ideally suited to Museums, Art Galleries and Retail applications
- Adjustable beam angle from 10° (Narrow) to 60° (Wide)
- Available in a choice of lumen outputs up to 3923 lumens
- Life expectancy in excess of 60,000 hours (L80 B10)
- Colour stability within 3 MacAdams
- Protective glass fitted as standard
- DALI Track versions are eminently suited to diverse, adaptable lighting scenarios. The Track requires the relevant dimming wiring
- Wireless Lighting Control available, see Connected video for full overview

Photometrics

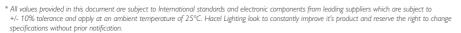




587-588 (60°) | **587-588** (35°)

587-588 (10°)

- J Switch Dim
- S DALI Dim
- L DALI Bidetootii
- **3** Warm (3000K) **4** Neutral (4000K)
- 1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)





A Integral Driver/Remote



Aart® Midi

3	Warm White LED (3000K)
	Lumen Output
	LOR
	CRI
	Total Power
	Power Factor
	Running Current
	Inrush Current (Std)
	Inrush Current (Dim)
	Efficacy
	Emergency Output (BLF)

4

Neutral White LED (4000K) Lumen Output LOR CRI Total Power Power Factor Running Current Inrush Current (Std) Inrush Current (Dim) Efficacy Emergency Output (BLF)

CRI 80	14W	21W	25W
	2264 lm	3229 lm	3797 lm
	0.68	0.68	0.68
	80	80	80
	14.5W	22.4W	26.4W
	0.95	0.95	0.95
	0.07A	0.10A	0.12A
	5A (50us)	5A (50us)	5A (50us)
	5A (50us)	5A (50us)	5A (50us)
	106 lm/W	98 lm/W	97 lm/W
	N/A	N/A	N/A

CKI OU	1444	Z1 W	25 VV
	2347 lm	3411 lm	3923 lm
	0.68	0.68	0.68
	80	80	80
	14.5W	22.4W	26.4W
	0.95	0.95	0.95
	0.07A	0.10A	0.12A
	5A (50us)	5A (50us)	5A (50us)
	5A (50us)	5A (50us)	5A (50us)
	110 lm/W	103 lm/W	101 lm/W
	N/A	N/A	N/A

1771 lm 2593 lm 2990 lm 0.68 0.68 0.68 90 90 90 14.5W 22.4W 26.4W 0.95 0.07A 0.95 0.10A 0.95 0.12A

5A (50us) 5A (50us) 77 lm/W

5A (50us)

5A (50us)

78 lm/W

CRI 90 14W 25W 21W 2010 lm 0.68 2926 lm 3368 lm 0.68 0.68 90 90 90 14.5W 22.4W 0.95 26.4W 0.95 0.95 0.07A 0.10A 0.12A 5A (50us) 5A (50us) 94 lm/W 5A (50us) 5A (50us) 5A (50us) 88 lm/W 5A (50us) 86 lm/W N/A N/A N/A

5A (50us)

5A (50us)

83 lm/W

N/A

3 Warm White LED (3000K)

Lumen Output LOR CRI Total Power Power Factor Running Current Inrush Current (Std) Inrush Current (Dim) Efficacy Emergency Output (BLF)

4 Neutral White LED (4000K) Lumen Output LOR CRI Total Power Power Factor Running Current Inrush Current (Std) Inrush Current (Dim)

Emergency Output (BLF)

CRI 80	14W	21W	25W
	2264 lm	3229 lm	3797 lm
	0.68	0.68	0.68
	80	80	80
	14.3W	22.0W	26.0W
	0.96	0.97	0.97
	0.07A	0.10A	0.12A
	3.5A (35us)	18.0A (210us)	24.0A (200us)
	20.0A (165us)	25.0A (140us)	28.0A (165us)
	107 lm/W	99 lm/W	99 lm/W
	N/A	N/A	N/A

CRI 80	14W	21W	25W
	2347 lm	3411 lm	3923 lm
	0.68	0.68	0.68
	80	80	80
	14.3W	22.0W	26.0W
	0.96	0.97	0.97
	0.07A	0.10A	0.12A
	3.5A (35us)	18.0A (210us)	24.0A (200us)
	20.0A (165us)	25.0A (140us)	28.0A (165us)
	111 lm/W	105 lm/W	102 lm/W
	N/A	N/A	N/A

CRI 90	14W	21W	25W
	1771 lm	2593 lm	2990 lm
	0.68	0.68	0.68
	90	90	90
	14.3W	22.0W	26.0W
	0.96	0.97	0.97
	0.07A	0.10A	0.12A
	3.5A (35us)	18.0A (210us)	24.0A (200us)
	20.0A (165us)	25.0A (140us)	28.0A (165us)
	84 lm/W	80 lm/W	78 lm/W
	N/A	N/A	N/A

CRI 90	14W	21W	25W
	2010 lm	2926 lm	3368 lm
	0.68	0.68	0.68
	90	90	90
	14.3W	22.0W	26.0W
	0.96	0.97	0.97
	0.07A	0.10A	0.12A
	3.5A (35us)	18.0A (210us)	24.0A (200us)
	20.0A (165us)	25.0A (140us)	28.0A (165us)
	95 lm/W	90 lm/W	88 lm/W
	N/A	N/A	N/A



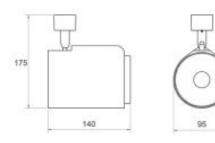


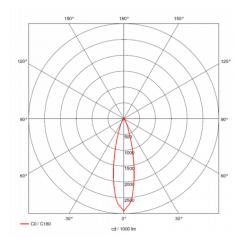
Umo Data Sheet 12

Technical Data Sheet

Range Name:	Prospot
Product Type:	Spotlights
Description:	Prospot LED-2500lm-24°-Warm White-White-Surface Mounting Plate-DALI Dimmable.Supplied with DALI 1 drivers.Check compatibility before purchase
Product Code:	T462524-WH/DD/930
Rado Calacco	MIL:t-
Body Colour:	White
Mounting:	Surface Mounted
Track Adaptor:	Surface - Surface Mounting Plate
Pendant Stem Length(mm):	<u>-</u>
Environment:	Interior
Size(mm)	140 x 95
Cut Out(mm):	-
Recessed Depth(mm):	-
Vertical Tilt(°):	90°
Horizontal Rotation(°):	355°
Light Source:	LED
Lamp Type:	Luminus LED
Lamp Included:	In Built
Lamp Base:	-
Lamp Life(Hours):	50000 hours
Lumen Output(Im):	3100lm
Colour Temperature(k):	3000k Warm White
CRI(Ra):	92
Beam Angle(°):	24°
Lense:	-
Voltage(V):	230VAC
Total System Power(W):	33.1W
Lamp Current(A):	0.144
Power Factor:	-
Luminaire Efficacy(lm/W):	76 lm/W
Class:	Class 1
Gear:	Built In
EAN Code:	-
Dimmability:	DALI Dimmable
Emergency:	-
IP Rating:	IP20
Weight(kg):	1.1kg
Housing Material:	Aluminium
Material Finish:	Powder Coated







Images, line drawings and measurements illustrated may, in some cases be approximate and for guidance only. Colour finishes will be maintained as accurately as possible but matching cannot be guaranteed.

Illuma Lighting are continually developing and improving its products. Technical specifications subject to change without prior notice.

For full terms and conditions visit: https://www.illuma.co.uk/terms.htm



Technical Data Sheet

Guarantee: 5 Year Guarantee

CONCORD BEACON MUSE 3000K SM DALI WHITE

Item No: 2062590

Data Sheet 13

Concord



























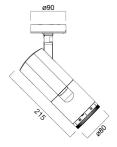


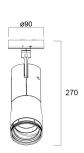


Simple and slick integral design with no driver box and without any visible screws New technology utilization for improved performance. Invisible in-track adaptor for an impressive architectural look Extremely precise light beams due to the high-quality lens Ø80mm die-cast aluminium body, Adjustable beam angle:between 8° - 55°, Textured white finishing colour Light color temperature: 3000K, warm light System power: 18W, Fixture lumen output: 980lm, efficacy: 55lm/W, Ra97 typical, LED chromacity: 2 step MacAdam ellipse LED source (SDCM2), IR/UV free light source without heat radiation Operating voltage 220-240V / 50-60Hz, DALI Surface mounting with surface mounting base. Electrical protection: Class II. Degree of protection: IP20, suitable for indoor environment only Horizontal rotation: 355°, vertical tilt: 90° Nominal product dimensions: D.80mmx215mm 5 years warranty. Suitable for ceiling surface mounting, and wall surface mounting

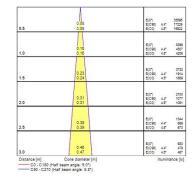
Technical Assets

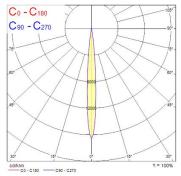
Dimensions (mm)





Photometrics





CONCORD BEACON MUSE 3000K SM DALI WHITE

Item No: 2062590 Concord

General data		Electrical data	
Product name	CONCORD BEACON MUSE 3000K SM DALI	Total power consumption (W)	18
Troduce name	WHITE	Current (A)	0.084
Technology	LED	Primary Supply/Product voltage - min	220.0
Cap/Base	N/A	(V)	
Housing	Aluminium	Primary Supply/Product voltage - max (V)	240.0
Mount	Ceiling surface mounting, Wall surface mounted	Lamp power factor	0.9
Fixture rating	Enclosed	THD (at 230 V, 50 Hz, full load, at 100% dimming level) ≤ xx.x %	10
General application	Museums & Galleries, Retail, Hospitality	Electrical protection	Class II
Operating temperature range (°C)	-10°C+35°C	Control gear type	LED driver constant current
ETIM Class	EC001744	Dimmable	Yes
Warranty	5 years	Dimming method	DALI
Optical data		Minimum dimming level (%)	1
Useful luminous flux (Φuse)	1000	Drive current (mA)	500
Fixture luminous flux (lm)	980	Inrush Current (A)	16
Luminaire efficacy (lm/W)	55	Inrush Duration (µs)	100
LOR (%)	100	Energy Efficiency Class (A->G) of contained light source	F
Correlated colour temperature (k)	3000	Nominal Frequency (Hz)	50/60Hz
Light colour	Warm White	Max. products per 10A C Breaker	50
CRI (Ra)	97	Max. products per 16A C Breaker	70
Colour Variation Initial (SDCM)	SDCM2	Max. products per 16A B Breaker	55
Luminous Intensity (cd)	980	Lifetime data	•
Beam Angle (°)	55		1,0000
Distribution type	Symmetric	Lifespan L70 B50	100000
Photobiological Risk Group	RG1	Lifespan L80 B50	100000
		Lifespan L90 B50	49000

CONCORD BEACON MUSE 3000K SM DALI WHITE

Item No: 2062590 Concord

Physical data		Packaging			
Housing colour	RAL 9016 - Traffic white / Bezel	Product EAN number	5025768625901		
IP rating	IP20	Packaging single length / height (cm)	30.5		
IK rating	IK02	Packaging single width (cm)	13.5		
Diffuser finish	Frosted	Packaging single depth (cm)	20.5		
Diffuser material	Other	DUN14 (inner)	05025768625901		
Reflector finish	Matt	Units per outer package	1		
Nominal Product Length (mm)	215	Packaging outer length / height (cm)	30.5		
Nominal Product Width (mm)	80	Packaging outer width (cm)	13.5		
Nominal Product Height (mm)	270	Packaging outer depth (cm)	20.5		
Nominal Product Diameter (mm)	80	Safety data			
Weight (kg)	1.02	Glow Wire Test (°C)	650		
		Optimal operating condition (°C)	-10-35		
		Dry applications use only	Yes		



Range Name

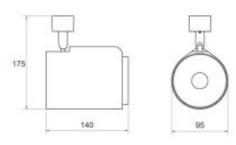
Illuma Data Sheet 14

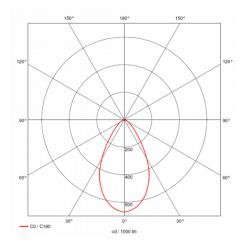
Technical Data Sheet

Range Name:	Prospot
Product Type:	Spotlights
Description:	Prospot LED-3500lm-60°-Warm White-White-Surface Mounting Plate-DALI Dimmable.Supplied with DALI 1 drivers.Check compatibility before purchase
Product Code:	T463560-WH/DD/930
Body Colour:	White
Mounting:	Surface Mounted
Track Adaptor:	Surface - Surface Mounting Plate
Pendant Stem Length(mm):	-
Environment:	Interior
Size(mm)	140 x 95
Cut Out(mm):	-
Recessed Depth(mm):	-
Vertical Tilt(°):	90°
Horizontal Rotation(°):	355°
Light Source:	LED
Lamp Type:	Luminus LED
Lamp Included:	In Built
Lamp Base:	-
Lamp Life(Hours):	50000 hours
Lumen Output(Im):	3600lm
Colour Temperature(k):	3000k Warm White
CRI(Ra):	92
Beam Angle(°):	60°
Lense:	-
Voltage(V):	230VAC
Total System Power(W):	38.2W
Lamp Current(A):	0.169
Power Factor:	-
Luminaire Efficacy(lm/W):	92 lm/W
Class:	Class 1
Gear:	Built In
EAN Code:	-
Dimmability:	DALI Dimmable
Emergency:	-
IP Rating:	IP20
Weight(kg):	1.2kg

Prospot







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Illuma Lighting are continually developing and improving its products. Technical specifications subject to change without prior notice.

Aluminium

Powder Coated

For full terms and conditions visit: https://www.illuma.co.uk/terms.htm

Housing Material:

Material Finish:



Technical Data Sheet

Guarantee: 5 Year Guarantee

ONETRACK 2M WHITE 9000A-2/W-ST

Item No: 9200502

SYLVANIA

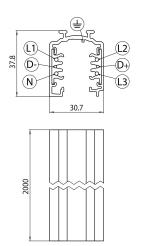




Onetrack - 3 circuit track + 2 circuit control L1/L2/L3/Neutral/ground 16A/440V + D+/D- 2x1A/50V FELV AC, DALI, DMX, 1-10V etc. compatible, circuits can be controlled individually, aluminum body, suitable for surface and suspended mounting, $2000 \times 30.7 \times 37.8 \text{ mm}$ (L x W x H), white (RAL 9010).

Technical Assets

Dimensions (mm)



Photometrics

ONETRACK 2M WHITE 9000A-2/W-ST

Item No: 9200502



General data

Product name	ONETRACK 2M WHITE 9000A-2/W-ST
Technology	Accessory
Accessory type	Electrical
Type of accessory	Track
Housing	Aluminium
	Suspended, Ceiling
Mount	surface mounting, Wall surface mounted
Mount General application	surface mounting, Wall
	surface mounting, Wall surface mounted Museums & Galleries,

Electrical data

Primary Supply/Product voltage - min (V)	220
Primary Supply/Product voltage - max (V)	240
Electrical protection	Class I

Physical data

Housing colour	White
Nominal Product Length (mm)	2000
Nominal Product Width (mm)	30.7
Nominal Product Height (mm)	37.8
Weight (kg)	1.68

Packaging

Product EAN number	4012289005023
Packaging single length / height (cm)	206.0
Packaging single width (cm)	3.3
Packaging single depth (cm)	3.5
Units per outer package	138
Packaging outer length / height (cm)	210.0
Packaging outer width (cm)	80.0
Packaging outer depth (cm)	50.0

CONCORD BEACON MUSE 3000K DALI WHITE

Item No: 2062584

Data Sheet 16

Concord



















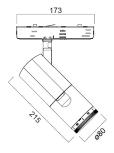


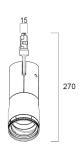


Simple and slick integral design with no driver box and without any visible screws New technology utilization for improved performance Invisible in-track adaptor for an impressive architectural look Extremely precise light beams due to the high-quality lens Ø80mm die-cast aluminium body, Adjustable beam angle:between 8° - 55°, Textured white finishing colour Light color temperature: 3000K, warm light System power: 18W, Fixture lumen output: 980lm, efficacy: 55lm/W, Ra97 typical, LED chromacity: 2 step MacAdam ellipse LED source (SDCM2), IR/UV free light source without heat radiation Operating voltage 220-240V / 50-60Hz, DALI suitable for installation on 3-circuit tracks, please check compatibility list on the instruction sheet. Compatible with OneTrack Electrical protection: Class II. Degree of protection: IP20, suitable for indoor environment only Horizontal rotation: 355°, vertical tilt: 90° Nominal product dimensions: D.80mmx215mm 5 years warranty. Suitable for track mounting

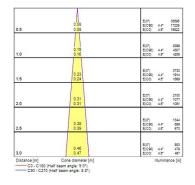
Technical Assets

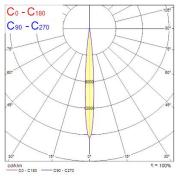
Dimensions (mm)





Photometrics





CONCORD BEACON MUSE 3000K DALI WHITE

Item No: 2062584

Concord

General data		Electrical data			
Product name	CONCORD BEACON MUSE 3000K DALI	Total power consumption (W)	18		
Troduct name	WHITE	Current (A)	0.084		
Technology	LED	Primary Supply/Product voltage - min	220.0		
Cap/Base	N/A	(V)			
Housing	Aluminium	Primary Supply/Product voltage - max (V)	240.0		
Mount	Track mounting	Lamp power factor	0.9		
Fixture rating	Enclosed	THD (at 230 V, 50 Hz, full load, at	10		
General application	Museums & Galleries, Retail, Hospitality	100% dimming level) ≤ xx.x %	10		
Operating temperature range (°C)	-10°C+35°C	Electrical protection	Class II		
ETIM Class	EC001744	Control gear type	LED driver constant current		
E-number FI	4170398	Dimmable	Yes		
Warranty	5 years	Dimming method	DALI		
Ontical data		Minimum dimming level (%)	1		
Optical data	1000	Drive current (mA)	500		
Useful luminous flux (Φuse)	1000	Inrush Current (A)	16		
Fixture luminous flux (lm)	980	Inrush Duration (µs)	100		
Luminaire efficacy (lm/W)	55	Energy Efficiency Class (A->G) of	F		
LOR (%)	100	contained light source	'		
Correlated colour temperature (k)	3000	Nominal Frequency (Hz)	50/60Hz		
Light colour	Warm White	Max. products per 10A C Breaker	50		
CRI (Ra)	97	Max. products per 16A C Breaker	70		
Colour Variation Initial (SDCM)	SDCM2	Max. products per 16A B Breaker	55		
Luminous Intensity (cd)	980	Lifetime data			
Beam Angle (°)	55	Lifespan L70 B50	100000		
Distribution type	Symmetric	Lifespan L80 B50	100000		
Photobiological Risk Group	RG1	Lifespan L90 B50	49000		
		Lifespail L30 B30	4,5000		

CONCORD BEACON MUSE 3000K DALI WHITE

Item No: 2062584

Concord

Physical data		Packaging			
Housing colour	RAL 9016 - Traffic white / Bezel	Product EAN number	5025768625840		
IP rating	IP20	Packaging single length / height (cm)	30.5		
IK rating	IK02	Packaging single width (cm)	13.5		
Diffuser finish	Frosted	Packaging single depth (cm)	20.5		
Diffuser material	Other	DUN14 (inner)	05025768625840		
Reflector finish	Matt	Units per outer package	1		
Nominal Product Length (mm)	215	Packaging outer length / height (cm)	30.5		
Nominal Product Width (mm)	80	Packaging outer width (cm)	13.5		
Nominal Product Height (mm)	270	Packaging outer depth (cm)	20.5		
Nominal Product Diameter (mm)	80	Safety data			
Weight (kg)	0.94	Glow Wire Test (°C)	650		
		Optimal operating condition (°C)	-10-35		
		Dry applications use only	Yes		

Concord Beacon XL - 3000K

















Features

- A comprehensive range of efficient and high performing LED spotlights; ideal for retail and display applications
- High colour rendering with CRI 93 typical
- High output versions also available with CRI 85 typical
- Narrow (15°), Medium (34°) and Wide (50°) beam options
- No-dimmable, On-board dimming potentiometer or DALI versions available

- For mounting on 3-circuit track (Lytespan 3)
- Available in 3000K or 4000K colour temperatures
- White or Black paint finish as standard. Other colours available on request.
- Accessories available (Elongation lens, Honeycomb filter, Barn door and Snoot)
- IR/UV free light source without heat radiation

- Energy Class: A++, A+, A
- Long lifetime: >72,000 hours life at L80B10
- LED technology provides an energy efficient solution with reduced maintenance costs

Product information

Code	Description	Finish	Fixture	Luminous	Efficacy	Beam	Colour	CRI	Dimmable	Control	Average
			Power (W)	Flux (lm)	(lm/W)	(lm/W) Angle (°)	Temp (K)			Technology	Rated Life (Hrs)
Beacon XL	- 93 CRI - 3000K										
White - LE	D										
2059677	Beacon XL 93 CRI 3K Narrow Beam L3 White	White	33	3103	94	15	3000	93	No	-	72,000
2059683	Beacon XL 93 CRI 3K Medium Beam L3 White	White	33	3060	93	34	3000	93	No	-	72,000
2059689	Beacon XL 93 CRI 3K Wide Beam L3 White	White	33	2802	85	50	3000	93	No	-	72,000
White - Int	egrated potentiometer dimmable										
2059679	Beacon XL 93 CRI 3K Narrow Beam L3 On-Board DIM White	White	33	3103	94	15	3000	93	Yes	Onboard Pot	72,000
2059685	Beacon XL 93 CRI 3K Medium Beam L3 On-Board DIM White	White	33	3060	93	34	3000	93	Yes	Onboard Pot	72,000
2059691	Beacon XL 93 CRI 3K Wide Beam L3 On-Board DIM White		33	2802	85	50	3000	93	Yes	Onboard Pot	72,000
White - DA	ALI										
2059681	Beacon XL 93 CRI 3K Narrow Beam L3+DALI White	White	33	3103	94	15	3000	93	Yes	DALI	72,000
2059687	Beacon XL 93 CRI 3K Medium Beam L3+DALI White	White	33	3060	93	34	3000	93	Yes	DALI	72,000
2059693	Beacon XL 93 CRI 3K Wide Beam L3+DALI White	White	33	2802	85	50	3000	93	Yes	DALI	72,000
Black - LED)										
2059676	Beacon XL 93 CRI 3K Narrow Beam L3 Black	Black	33	3103	94	15	3000	93	No	-	72,000
2059682	Beacon XL 93 CRI 3K Medium Beam L3 Black	Black	33	3060	93	34	3000	93	No	-	72,000
2059688	Beacon XL 93 CRI 3K Wide Beam L3 Black	Black	33	2802	85	50	3000	93	No	-	72,000
Black - Inte	egrated potentiometer dimmable										
2059678	Beacon XL 93 CRI 3K Narrow Beam L3 On-Board DIM Black	Black	33	3103	94	15	3000	93	Yes	Onboard Pot	72,000
2059684	Beacon XL 93 CRI 3K Medium Beam L3 On-Board DIM Black	Black	33	3060	93	34	3000	93	Yes	Onboard Pot	72,000
2059690	Beacon XL 93 CRI 3K Wide Beam L3 On-Board DIM Black	Black	33	2802	85	50	3000	93	Yes	Onboard Pot	72,000
Black - DA	Ц										
2059680	Beacon XL 93 CRI 3K Narrow Beam L3+DALI Black	Black	33	3103	94	15	3000	93	Yes	DALI	72,000
2059686	Beacon XL 93 CRI 3K Medium Beam L3+DALI Black	Black	33	3060	93	34	3000	93	Yes	DALI	72,000
2059692	Beacon XL 93 CRI 3K Wide Beam L3+DALI Black	Black	33	2802	85	50	3000	93	Yes	DALI	72,000

Additional Images



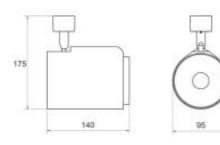


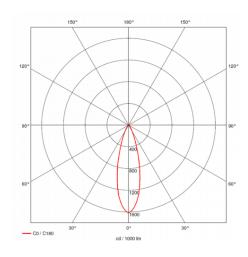


Technical Data Sheet

Range Name:	Prospot
Product Type:	Spotlights
Description:	Prospot LED-2500lm-38°-Warm White-Black-Surface Mounting Plate-DALI Dimmable.Supplied with DALI 1 drivers.Check compatibility before purchase
Product Code:	T462538-BL/DD/930
Body Colour:	Black
Mounting:	Surface Mounted
Track Adaptor:	Surface - Surface Mounting Plate
Pendant Stem Length(mm):	<u>-</u>
Environment:	Interior
Size(mm)	140 x 95
Cut Out(mm):	-
Recessed Depth(mm):	-
Vertical Tilt(°):	90°
Horizontal Rotation(°):	355°
Light Source:	LED
Lamp Type:	Luminus LED
Lamp Included:	In Built
Lamp Base:	-
Lamp Life(Hours):	50000 hours
Lumen Output(Im):	3100lm
Colour Temperature(k):	3000k Warm White
CRI(Ra):	92
Beam Angle(°):	38°
Lense:	-
Voltage(V):	230VAC
Total System Power(W):	33.1W
Lamp Current(A):	0.144
Power Factor:	-
Luminaire Efficacy(lm/W):	76 lm/W
Class:	Class 1
Gear:	Built In
EAN Code:	-
Dimmability:	DALI Dimmable
Emergency:	-
IP Rating:	IP20
Weight(kg):	1.1kg
Housing Material:	Aluminium
Material Finish:	Powder Coated







Images, line drawings and measurements illustrated may, in some cases be approximate and for guidance only. Colour finishes will be maintained as accurately as possible but matching cannot be guaranteed.

Illuma Lighting are continually developing and improving its products. Technical specifications subject to change without prior notice.

For full terms and conditions visit: https://www.illuma.co.uk/terms.htm



Technical Data Sheet

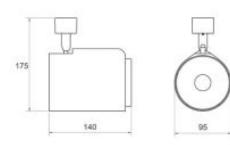
Guarantee: 5 Year Guarantee

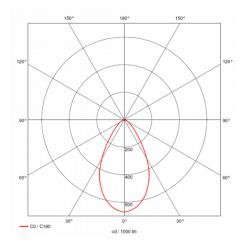


Technical Data Sheet

Range Name:	Prospot
Product Type:	Spotlights
Description:	Prospot LED-2500lm-60°-Warm White-Black-Surface Mounting Plate-DALI Dimmable.Supplied with DALI 1 drivers.Check compatibility before purchase
Product Code:	T462560-BL/DD/930
Body Colour:	Black
Mounting:	Surface Mounted
Track Adaptor:	Surface - Surface Mounting Plate
Pendant Stem Length(mm):	-
Environment:	Interior
Size(mm)	140 x 95
Cut Out(mm):	-
Recessed Depth(mm):	-
Vertical Tilt(°):	90°
Horizontal Rotation(°):	355°
Light Source:	LED
Lamp Type:	Luminus LED
Lamp Included:	In Built
Lamp Base:	-
Lamp Life(Hours):	50000 hours
Lumen Output(Im):	3100lm
Colour Temperature(k):	3000k Warm White
CRI(Ra):	92
Beam Angle(°):	60°
Lense:	-
Voltage(V):	230VAC
Total System Power(W):	33.1W
Lamp Current(A):	0.144
Power Factor:	-
Luminaire Efficacy(lm/W):	76 lm/W
Class:	Class 1
Gear:	Built In
EAN Code:	-
Dimmability:	DALI Dimmable
Emergency:	-
IP Rating:	IP20
Weight(kg):	1.1kg
Housing Material:	Aluminium
Material Finish:	Powder Coated









Technical Data Sheet

Guarantee: 5 Year Guarantee





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Encore®

-\□- LED CRI 80 Surface	☆ ■	K •		LED CRI 90 Surface	₽ ■	K	• 🖽	
8W LED 14W LED 19W LED	IS1664 LED IS1664 LED IS1664 LED	_ 08 14 19	+ 767 + 767 + 767	8W LED S16 14W LED S16 19W LED S16	65 _ LED	_ 14 19	- + - + - +	768 768 768
Three Circuit Track				Three Circuit Track				
8W LED 14W LED 19W LED	TT1664 _ LED TT1664 _ LED TT1664 _ LED	_ 08 14 19	+ 767 + 767 + 767	8W LED TT16 14W LED TT16 19W LED TT16	65 _ LED	_ 08 _ 14 _ 19	- + - + - +	768 768 768
DALI Track				DALI Track				
8W LED 14W LED 19W LED	TD1664 _ LED TD1664 _ LED TD1664 _ LED	_ 08 14 19	+ 767 + 767 + 767	8W LED TD16 14W LED TD16 19W LED TD16	65 _ LED	14	- + - + - +	768 768 768

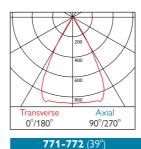
TT versions not suitable for use with Gear Types J & S TD versions not suitable for use with Gear Types A & L

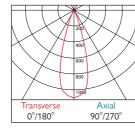
Add the required Reflector to code from list shown below

- Ideally suited to Museums, Art Galleries and Retail applications
- Available in a choice of lumen outputs up to 3594 lumens
- Efficacies up to 120 lm/W
- Life expectancy in excess of 60,000 hours (L90 B10)
- Colour stability within 3 MacAdams
- DALI Track versions are eminently suited to diverse, adaptable lighting scenarios. The Track requires the relevant dimming wiring
- Wireless Lighting Control available, see Connected video for full overview
- Protective glass fitted as standard
- Range of reflector options available
 - A Integral Driver/Remote
 - Switch Dim J
 - DALI Dim S
 - L DALI Bluetooth
- 3 Warm (3000K) 4 Neutral (4000K)
- 1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)

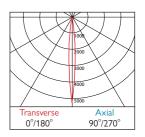
Refle	ector	CRI80	CRI90
140	Standard (25°)	767	768
537	Narrow Beam (15°)	769	770
538	Wide Beam (39°)	771	772

Photometrics





1 P



767-768 (25°)

769-770 (15°)

Options

■ Baffle Option



639 Anti Glare Baffle

Tel: (0191) 280 9911 Email: technical@hacel.co.uk Web: www.hacel.co.uk



^{*} All values provided in this document are subject to International standards and electronic components from leading suppliers which are subject to +/- 10% tolerance and apply at an ambient temperature of 25°C. Hacel Lighting look to constantly improve it's product and reserve the right to change specifications without prior notification.





Encore®

Warm White LED (3000K)	3
Lumen Output	
LOR	
CRI	
Total Power	
Power Factor	
Running Current	
Inrush Current (Std)	
Inrush Current (Dim)	
Efficacy	
Emergency Output (RLF)	

CRI 80	8W	14W	19W
	1463 lm	2605 lm	3434 lm
	0.66	0.66	0.66
	80	80	80
	8.6W	15.6W	21.1W
	0.95	0.95	0.95
	0.04A	0.07A	0.10A
	5A (50us)	5A (50us)	5A (50us)
	10A (2.8us)	10A (2.8us)	10A (2.8us)
	112 lm/W	110 lm/W	107 lm/W
	N/A	N/A	N/A

CRI 80	8W	14W	19W
	1538 lm	2733 lm	3594 lm
	0.66	0.66	0.66
	80	80	80
	8.6W	15.6W	21.1W
	0.95	0.95	0.95
	0.04A	0.07A	0.10A
	5A (50us)	5A (50us)	5A (50us)
	10A (2.8us)	10A (2.8us)	10A (2.8us)
	118 lm/W	115 lm/W	112 lm/W
	N/A	N/A	N/A

1186 lm 2105 lm 2774 lm 0.66 90 21.1W 0.66 0.66 90 90 8.6W 15.6W 0.95 0.04A 0.95 0.07A 0.95 0.10A 5A (50us) 5A (50us) 5A (50us) 10A (2.8us) 91 lm/W 10A (2.8us) 89 lm/W 10A (2.8us) 86 lm/W

CRI 90	8W	14W	19W
	1291 lm	2290 lm	3013 lm
	0.66	0.66	0.66
	90	90	90
	8.6W	15.6W	21.1W
	0.95	0.95	0.95
	0.04A	0.07A	0.10A
	5A (50us)	5A (50us)	5A (50us)
	10A (2.8us)	10A (2.8us)	10A (2.8us)
	99 lm/W	96 lm/W	94 lm/W
	N/A	N/A	N/A

3 Warm White LED (3000K) Lumen Output LOR CRI Total Power Power Factor Running Current Inrush Current (Std) Inrush Current (Dim) Emergency Output (BLF)

4

Neutral White LED (4000K)
Lumen Output
LOR
CRI
Total Power
Power Factor
Running Current
Inrush Current (Std)
Inrush Current (Dim)
Efficacy
Emergency Output (BLF)

CRI 80	8W	14W	19W	
	1463 lm	2605 lm	3434 lm	
	0.66	0.66	0.66	
	80	80	80	
	8.4W	15.4W	20.7W	
	0.92	0.96	0.97	
	0.04A	0.07A	0.09A	
	3A (60us)	18A (210us)	18A (210us)	
	20A (25us)	20A (25us)	20A (25us)	
	114 lm/W	111 lm/W	109 lm/W	
	N/A	N/A	N/A	

CRI 80	8W	14W	19W
	1538 lm	2733 lm	3594 lm
	0.66	0.66	0.66
	80	80	80
	8.4W	15.4W	20.7W
	0.92	0.96	0.97
	0.04A	0.07A	0.09A
	3A (60us)	18A (210us)	18A (210us)
	20A (25us)	20A (25us)	20A (25us)
	120 lm/W	117 lm/W	114 lm/W
	N/A	N/A	N/A

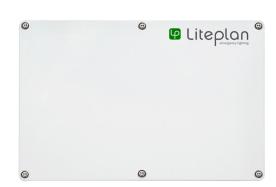
CRI 90	8W	14W	19W
	1186 lm	2105 lm	2774 lm
	0.66	0.66	0.66
	90	90	90
	8.4W	15.4W	20.7W
	0.92	0.96	0.97
	0.04A	0.07A	0.09A
	3A (60us)	18A (210us)	18A (210us)
	20A (25us)	20A (25us)	20A (25us)
	93 lm/W	90 lm/W	88 lm/W
	N/A	N/A	N/A

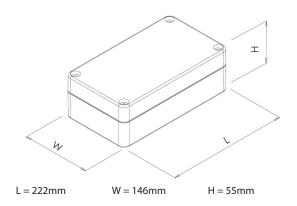
NI 70	0 **	1977	1244	
	1291 lm	2290 lm	3013 lm	
	0.66	0.66	0.66	
	90	90	90	
	8.4W	15.4W	20.7W	
	0.92	0.96	0.97	
	0.04A	0.07A	0.09A	
	3A (60us)	18A (210us)	18A (210us)	
	20A (25us)	20A (25us)	20A (25us)	
	101 lm/W	98 lm/W	96 lm/W	
	N/A	N/A	N/A	











The TED/4/IP54 is supplied as a remote conversion kit for mounting away from the fitting in damp locations. This kit would be used in applications where space inside the fitting is limited.

- Remote LED Conversion Kit
- Deep discharge protection
- Complete Kit Housed in One Enclosure
- High Temperature NiCd Batteries
- Converts LED Loads from 50-250 Volts
- Ingress Protection Rating of IP54
- IP65 Version Available

A 3 hour emergency lighting conversion kit which operates with high temperature NiCd batteries. The unit is designed to suit an extremely wide range of LED types and circuits. The TED/4 automatically adjusts the output LED current to provide the best match between the battery and the load, providing maximum illumination whilst ensuring full battery duration.

Please note that if mounting this kit more that 1m away from the luminaire, Fire Rated cable must be used to connect the pack to the fitting. (BSEN5266-1)

Order Codes

TED/4/IP54

For LED loads operating in voltage range of 50 - 250 Volts forward.

Unit supplied in single part remote enclosure with cables for simple connection.

Technical Details:

Mains Supply	230-240V AC 50/60 Hz	Max Ta and Tc	Ta - 50 °C - Tc - 70 °C
Power Rating	23mA $\lambda = 0.85$	Max Battery Temperature	55 ℃
Duration	3 Hours	Battery Discharge Current	1000mA nominal
Recharge Period	24-Hours	Discharge Voltage Limit	2.5 Volts
Battery Size & Type	4.8V 4.5Ah NiCd Cells	Ingress Protection	IP54
Charge Current	200mA	Mains Input Terminal - Screw	1.0mm ² - 2.5 mm ²
Battery Voltage Cut-Off	4V	Dimensions (LxWxH)	222mm x 146mm x 55mm
Kit Weight	1.38Kg	Mains Input Gland Size	16mm

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Liteplan reserve the right to change colour, price or specification without prior notice

