FIRE RESISTANT CABLES

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

FP200 GOLD®

BS7629-1:2008

PRYSMIAN FP 200 GOLD

Certificate No 077f
Certificate No 077k

FP200 GOLD®

> The original highly durable and dressable, easy to terminate and install fire resistant cable, using the unique Insudite™ damage resistant insulation system. 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.

APPROVALS

> 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.

DATA CAPABILITY

> FP200 Gold® has excellent data/signal transmission characteristics making it ideal for voice alarm, addressable and networked systems.

INSTALLATION

> 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

Temperature Range −20 to +70℃	Bending Radius Fixed r=6D	Mechanical Impact Medium	Fire Performance BS EN 60332-1-2 BS EN 50266-2-4	Flexibilty Rigid	Halogen Free BS EN 50267-2-1	Low Smoke Emissions BS EN 61034-2	Fire Resistance BS6387 Category CWZ BS EN 50200 PH30 & PH60[3] BS EN 50200 Annex E

PRYSMIAN CABLES & SYSTEMS

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 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 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 cross sectional area mm^2	Conceptual Construction no./mm	Mean overall diameter mm	Approximate cable weight kg/km	Maximum conductor resistance at 20°C ohms/km	Current rating DC or single phase AC Enclosed Amps	Current rating DC or single phase AC Clipped direct Amps	Volt drop DC or single phase AC mV/A/m	Recommended accessories Colour – White or Red [1] LSOH® fixing clips	[2] Nylon LSOH® gland	FP Firefix™ fixing clips
Two core										
1.0 [3]	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										
1.0 [3]	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										
1.0 [3]	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

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 1.5mm^2

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°C	25	30	35	40	45	50
Rating factor	1.03	1.00	0.94	0.87	0.79	0.71

Rating Factors for Groupings

Number of circuits	2	3	4	5	6	7
Rating factor	0.80	0.70	0.65	0.60	0.57	0.54

PRYSMIAN
CABLES & SYSTEMS

QS | Ethernet | DALI 1 | DALI 2

Hi Temp
Test
Power
L N G

Energi Savr Node QS™
QSNE-2DAL-D
LUTRON
www.lutron.com
+44.(0)20.7680.4481

24V | IR | Photo | Occ | Com | 24V | IR | Photo | Occ | Com

Energi Savr Node QS™

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

LUTRON®

save
energy
with
Lutron™

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.

Photography © Nic Lehoux

Photography © Nic Lehoux

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 devices [1]
- 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

Data Sheet 3

# Wired International seeTouch® Keypads Insert Style

Model Numbers

Base Units

|	
HQWIS-NB-NONE	Keypad without Wallplate /Button Kit
HQWIS-NBIR-NONE	IR Keypad without Wallplate/Button Kit

Button/Wallplate Kits

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-5BIR-I-XX*	5 button with Raise/Lower and IR
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-10BRL-I-XX*	10 button with Raise/Lower

Replacement Button Kits

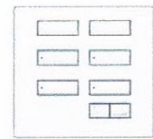|	
SIB-2B-XX*-E	2 button
SIB-3B-XX*-E	3 button
SIB-4B-XX*-E	4 button
SIB-5BRL-XX*-E	5 button with Raise/Lower
SIB-5BIR-XX*-E	5 button with Raise/Lower and IR
SIB-6BRL-XX*-E	6 button with Raise/Lower
SIB-7BRL-XX*-E	7 button with Raise/Lower
SIB-8BRL-XX*-E	8 button with Raise/Lower
SIB-8BIR-XX*-E	8 button with Raise/Lower and IR
SIB-10BRL-XX*-E	10 button with Raise/Lower
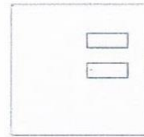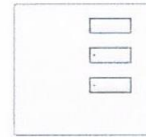
HWIS-2B-I-XX*   HWIS-3B-I-XX*   HWIS-4B-I-XX*
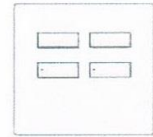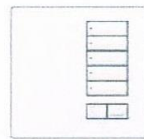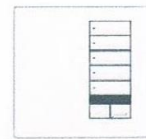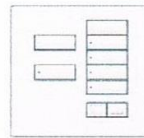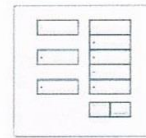
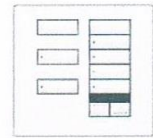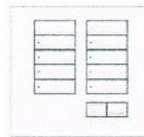HWIS-5BRL-I-XX*   HWIS-5BIR-I-XX*   HWIS-6BRL-I-XX*

HWIS-7BRL-I-XX*   HWIS-8BRL-I-XX*   HWIS-8BIR-I-XX*

HWIS-10BRL-I-XX*

Ordering Example:

HQWIS-NB-NONE (Base Unit) and
HWIS-2B-I-AW (Wallplate/Button Kit)

*"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_{nA} = 63A/100A, I_{nc} = 63A, I_{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.

JK008

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**

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_{nA} = 63A/100A, I_{nc} = 63A, I_{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.

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 I_{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
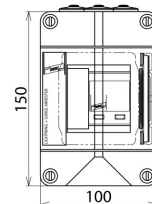- Enclosure with transparent cover, degree of protection: IP 65

Figure without obligation
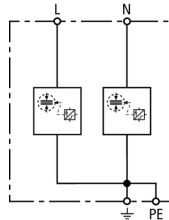
Basic circuit diagram DSP 12 SH 240

Height of enclosure 96

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).

Arrester data

Type Part No.	DSP 12 SH 240 902 670
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

✔, ⊕: Tested NEW: New ⚠: Discontinued Model

Enclosure data

Type	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.

✔, ⊕: Tested NEW: New !: Discontinued Model

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
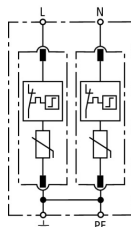
Basic circuit diagram DSP 2 P 240
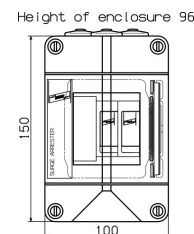
Dimension drawing DSP 2 P 240

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

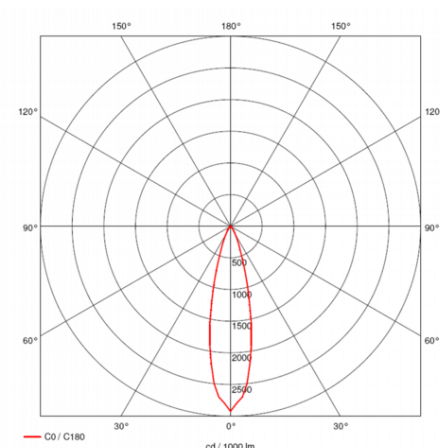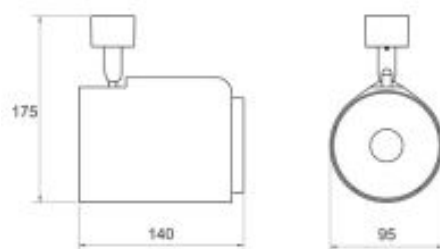| Type	DSP 2 P 240
Part No.	902 650
SPD according to EN 61643-11 / ... IEC 61643-1/-11	type 2 / class II
Nominal a.c. voltage (U_N)	240 V
Power supply system	TN system
Max. continuous operating a.c. voltage (U_C)	275 V
Nominal discharge current (8/20) (I_n)	20 kA
Maximum discharge current (8/20) (I_{max})	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

Type	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.

✔, : Tested NEW : New : Discontinued Model

220

455

371

196

40

362

294

267

SECTION A-A

A

CUSTOMER :-	A J SMITHS
PROJECT :-	TBA
CUSTOMER REF :-	Ali Hoppers @ 80%
GBL QUOTE No :-	34485
MATERIAL :-	Aliminium
FINISH :-	Painted
LAMP DETAIL :-	L E D Units
DRAWN BY :-	T D Burman
DATE DRAWN :-	Wednesday 9th July 2025
SCALE :-	1: 2 on A1 DO NOT SCALE
QUANTITY :-	TBA

This drawing is the property of GBL (NW) Ltd and is not to be used without prior consent from GBL (NW)Ltd

illuma

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(lm):	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

175 · 140 · 95

— C0 / C180   cd / 1000 lm

Guarantee: 5 Year Guarantee

Azuma® Midi

	☀	✦	▫■	K	🎨	✚	▲
LED CRI 80							
Surface							
12W	LED	IS477	LED		12	+	447
19W	LED	IS477	LED		19	+	447
25W	LED	IS477	LED		25	+	447
Single Circuit Track							
12W	LED	TS477	LED		12	+	447
19W	LED	TS477	LED		19	+	447
25W	LED	TS477	LED		25	+	447
Three Circuit Track							
12W	LED	TT477	LED		12	+	447
19W	LED	TT477	LED		19	+	447
25W	LED	TT477	LED		25	+	447
DALI Track							
12W	LED	TD477	LED		12	+	447
19W	LED	TD477	LED		19	+	447
25W	LED	TD477	LED		25	+	447

	☀	✦	▫■	K	🎨	✚	▲
LED CRI 90							
Surface							
12W	LED	IS478	LED		12	+	448
19W	LED	IS478	LED		19	+	448
25W	LED	IS478	LED		25	+	448
Single Circuit Track							
12W	LED	TS478	LED		12	+	448
19W	LED	TS478	LED		19	+	448
25W	LED	TS478	LED		25	+	448
Three Circuit Track							
12W	LED	TT478	LED		12	+	448
19W	LED	TT478	LED		19	+	448
25W	LED	TT478	LED		25	+	448
DALI Track							
12W	LED	TD478	LED		12	+	448
19W	LED	TD478	LED		19	+	448
25W	LED	TD478	LED		25	+	448

93 ∅   24
93 ∅   185
142

154

180°   340°   50mm   1.6 kg

Narrow 15°   **Medium** 25°   **Wide** 39°
   Standard
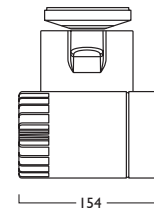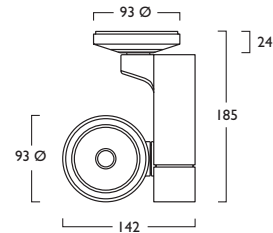
- Available in a choice of lumen outputs, delivering up to 4705 lumens
- Efficacies up to 156 lm/W
- Single point Zhaga Book 3 LED
- Medium beam reflector as standard
- Life expectancy in excess of 60,000 hours (L90 B10)
- Colour stability within 3 MacAdams
- Protective glass fitted as standard
- Complementary 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	450
140 Standard Beam 25°	767	768
538 Wide Beam 39°	451	452
Baffle Option - *Examples Shown on page 2*		

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Azuma® Midi

3	Warm White LED (3000K)	**CRI 80**	**12W**	**19W**	**25W**		**CRI 90**	**12W**	**19W**	**25W**
	Lumen Output		2325 lm	3434 lm	4502 lm			1879 lm	2774 lm	3645 lm
	LOR		0.92	0.92	0.92			0.92	0.92	0.92
	CRI		80	80	80			90	90	90
	Total Power		14.4W	21.1W	28.1W			14.4W	21.1W	28.1W
	Power Factor		0.95	0.97	0.97			0.95	0.97	0.97
	Running Current		0.06A	0.09A	0.13A			0.06A	0.09A	0.13A
	Inrush Current (Std)		3.5A (35us)	18A (210us)	24A (200us)			3.5A (35us)	18A (210us)	24A (200us)
	Inrush Current (Dim)		2.71A (38us)	3.31A (43us)	5.33A (42us)			2.71A (38us)	3.31A (43us)	5.33A (42us)
	Efficacy		148 lm/W	149 lm/W	147 lm/W			120 lm/W	120 lm/W	119 lm/W
	Emergency Output (BLF)		N/A	N/A	N/A			N/A	N/A	N/A

4	Neutral White LED (4000K)	**CRI 80**	**12W**	**19W**	**25W**		**CRI 90**	**12W**	**19W**	**25W**
	Lumen Output		2439 lm	3594 lm	4705 lm			2045 lm	3013 lm	3946 lm
	LOR		0.92	0.92	0.92			0.92	0.92	0.92
	CRI		80	80	80			90	90	90
	Total Power		14.4W	21.1W	28.1W			14.4W	21.1W	28.1W
	Power Factor		0.95	0.97	0.97			0.95	0.97	0.97
	Running Current		0.06A	0.09A	0.13A			0.06A	0.09A	0.13A
	Inrush Current (Std)		3.5A (35us)	18A (210us)	24A (200us)			3.5A (35us)	18A (210us)	24A (200us)
	Inrush Current (Dim)		2.71A (38us)	3.31A (43us)	5.33A (42us)			2.71A (38us)	3.31A (43us)	5.33A (42us)
	Efficacy		155 lm/W	156 lm/W	154 lm/W			130 lm/W	131 lm/W	129 lm/W
	Emergency Output (BLF)		N/A	N/A	N/A			N/A	N/A	N/A

Options

◼ **Baffle** Option

539 Anti Glare Baffle

Photometrics
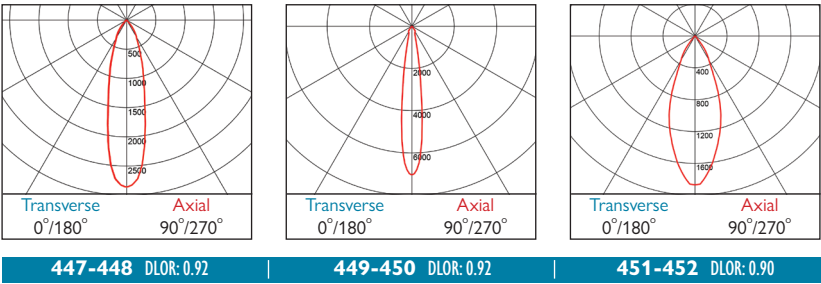
Transverse 0°/180°	Axial 90°/270°		Transverse 0°/180°	Axial 90°/270°		Transverse 0°/180°	Axial 90°/270°
447-448 DLOR: 0.92			**449-450** DLOR: 0.92			**451-452** DLOR: 0.90	

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CONCORD BEACON MUSE 3000K SM DALI BLACK

Data Sheet 10

Concord

Item No: 2062593

CE IK02 IP20 LED DALI

UKCA ☐ 55°

♲ 650°C
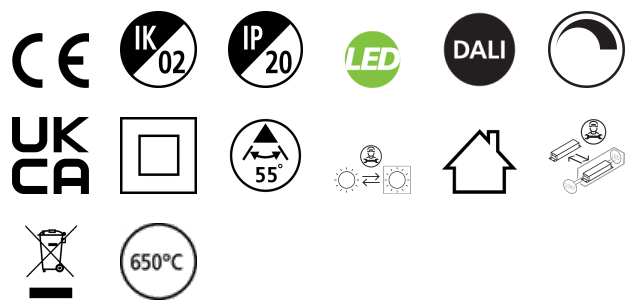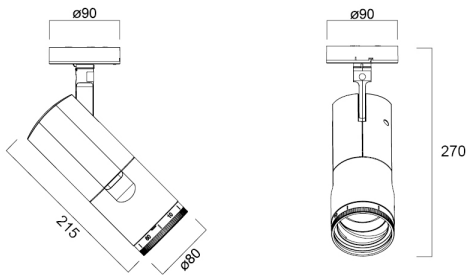
Simple and slick integral design with no driver box and without any visible screws New technology utilization for improved performance Invisible in-track adaptor for an impressive architectural look Extremely precise light beams due to the high-quality lens ⌀80mm die-cast aluminium body, Adjustable beam 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

Product name	CONCORD BEACON MUSE 3000K SM DALI BLACK
Technology	LED
Cap/Base	N/A
Housing	Aluminium
Mount	Ceiling surface mounting, Wall surface mounted
Fixture rating	Enclosed
General application	Museums & Galleries, Retail, Hospitality
Operating temperature range (°C)	-10°C...+35°C
ETIM Class	EC001744
Warranty	5 years

Optical data

Useful luminous flux (Φuse)	1000
Fixture luminous flux (lm)	980
Luminaire efficacy (lm/W)	55
LOR (%)	100
Correlated colour temperature (k)	3000
Light colour	Warm White
CRI (Ra)	97
Colour Variation Initial (SDCM)	SDCM2
Luminous Intensity (cd)	980
Beam Angle (°)	55
Distribution type	Symmetric
Photobiological Risk Group	RG1

Electrical data

Total power consumption (W)	18
Current (A)	0.084
Primary Supply/Product voltage - min (V)	220.0
Primary Supply/Product voltage - max (V)	240.0
Lamp power factor	0.9
THD (at 230 V, 50 Hz, full load, at 100% dimming level) ≤ xx.x %	10
Electrical protection	Class II
Control gear type	LED driver constant current
Dimmable	Yes
Dimming method	DALI
Minimum dimming level (%)	1
Drive current (mA)	500
Inrush Current (A)	16
Inrush Duration (µs)	100
Energy Efficiency Class (A->G) of contained light source	F
Nominal Frequency (Hz)	50/60Hz
Max. products per 10A C Breaker	50
Max. products per 16A C Breaker	70
Max. products per 16A B Breaker	55

Lifetime data

Lifespan L70 B50	100000
Lifespan L80 B50	100000
Lifespan L90 B50	49000

CONCORD BEACON MUSE 3000K SM DALI BLACK

Item No: 2062593

Concord

Physical 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

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

Aart® Midi

LED CRI 80

Surface

14W	LED	IS1274		LED		14		587
21W	LED	IS1274		LED		21		587
25W	LED	IS1274		LED		25		587

Three Circuit Track

14W	LED	TT1274		LED		14		587
21W	LED	TT1274		LED		21		587
25W	LED	TT1274		LED		25		587

DALI Track

14W	LED	TD1274		LED		14		587
21W	LED	TD1274		LED		21		587
25W	LED	TD1274		LED		25		587

LED CRI 90

Surface

14W	LED	IS1275		LED		14		588
21W	LED	IS1275		LED		21		588
25W	LED	IS1275		LED		25		588

Three Circuit Track

14W	LED	TT1275		LED		14		588
21W	LED	TT1275		LED		21		588
25W	LED	TT1275		LED		25		588

DALI Track

14W	LED	TD1275		LED		14		588
21W	LED	TD1275		LED		21		588
25W	LED	TD1275		LED		25		588

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

TD versions not suitable for use with Gears Type A & L

Surface

78 | 153 | 32 | 146 | 94 | 155
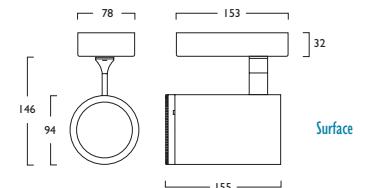
230V 50Hz | IP 20 | 90° | 347° | 130 x 50mm | 1.6 kg

Track

231 | 43 | 146 | 94 | 155
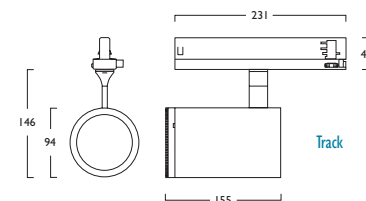
230V 50Hz | IP 20 | 90° | 347° | 1.6 kg

- 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°)
Transverse 0°/180° Axial 90°/270°	Transverse 0°/180° Axial 90°/270°	Transverse 0°/180° Axial 90°/270°

A Integral Driver/Remote
J Switch Dim
S DALI Dim
L DALI Bluetooth

3 Warm (3000K) **4** Neutral (4000K)

1 White (RAL 9010) **2** Urban Graphite (RAL 7046) **3** Black (RAL 9005)

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Aart® Midi

3	Warm White LED (3000K)	CRI 80	14W	21W	25W	CRI 90	14W	21W	25W
	Lumen Output		2264 lm	3229 lm	3797 lm		1771 lm	2593 lm	2990 lm
	LOR		0.68	0.68	0.68		0.68	0.68	0.68
	CRI		80	80	80		90	90	90
	Total Power		14.5W	22.4W	26.4W		14.5W	22.4W	26.4W
	Power Factor		0.95	0.95	0.95		0.95	0.95	0.95
	Running Current		0.07A	0.10A	0.12A		0.07A	0.10A	0.12A
	Inrush Current (Std)		5A (50us)	5A (50us)	5A (50us)		5A (50us)	5A (50us)	5A (50us)
	Inrush Current (Dim)		5A (50us)	5A (50us)	5A (50us)		5A (50us)	5A (50us)	5A (50us)
	Efficacy		106 lm/W	98 lm/W	97 lm/W		83 lm/W	78 lm/W	77 lm/W
	Emergency Output (BLF)		N/A	N/A	N/A		N/A	N/A	N/A

4	Neutral White LED (4000K)	CRI 80	14W	21W	25W	CRI 90	14W	21W	25W
	Lumen Output		2347 lm	3411 lm	3923 lm		2010 lm	2926 lm	3368 lm
	LOR		0.68	0.68	0.68		0.68	0.68	0.68
	CRI		80	80	80		90	90	90
	Total Power		14.5W	22.4W	26.4W		14.5W	22.4W	26.4W
	Power Factor		0.95	0.95	0.95		0.95	0.95	0.95
	Running Current		0.07A	0.10A	0.12A		0.07A	0.10A	0.12A
	Inrush Current (Std)		5A (50us)	5A (50us)	5A (50us)		5A (50us)	5A (50us)	5A (50us)
	Inrush Current (Dim)		5A (50us)	5A (50us)	5A (50us)		5A (50us)	5A (50us)	5A (50us)
	Efficacy		110 lm/W	103 lm/W	101 lm/W		94 lm/W	88 lm/W	86 lm/W
	Emergency Output (BLF)		N/A	N/A	N/A		N/A	N/A	N/A

3	Warm White LED (3000K)	CRI 80	14W	21W	25W	CRI 90	14W	21W	25W
	Lumen Output		2264 lm	3229 lm	3797 lm		1771 lm	2593 lm	2990 lm
	LOR		0.68	0.68	0.68		0.68	0.68	0.68
	CRI		80	80	80		90	90	90
	Total Power		14.3W	22.0W	26.0W		14.3W	22.0W	26.0W
	Power Factor		0.96	0.97	0.97		0.96	0.97	0.97
	Running Current		0.07A	0.10A	0.12A		0.07A	0.10A	0.12A
	Inrush Current (Std)		3.5A (35us)	18.0A (210us)	24.0A (200us)		3.5A (35us)	18.0A (210us)	24.0A (200us)
	Inrush Current (Dim)		20.0A (165us)	25.0A (140us)	28.0A (165us)		20.0A (165us)	25.0A (140us)	28.0A (165us)
	Efficacy		107 lm/W	99 lm/W	99 lm/W		84 lm/W	80 lm/W	78 lm/W
	Emergency Output (BLF)		N/A	N/A	N/A		N/A	N/A	N/A

4	Neutral White LED (4000K)	CRI 80	14W	21W	25W	CRI 90	14W	21W	25W
	Lumen Output		2347 lm	3411 lm	3923 lm		2010 lm	2926 lm	3368 lm
	LOR		0.68	0.68	0.68		0.68	0.68	0.68
	CRI		80	80	80		90	90	90
	Total Power		14.3W	22.0W	26.0W		14.3W	22.0W	26.0W
	Power Factor		0.96	0.97	0.97		0.96	0.97	0.97
	Running Current		0.07A	0.10A	0.12A		0.07A	0.10A	0.12A
	Inrush Current (Std)		3.5A (35us)	18.0A (210us)	24.0A (200us)		3.5A (35us)	18.0A (210us)	24.0A (200us)
	Inrush Current (Dim)		20.0A (165us)	25.0A (140us)	28.0A (165us)		20.0A (165us)	25.0A (140us)	28.0A (165us)
	Efficacy		111 lm/W	105 lm/W	102 lm/W		95 lm/W	90 lm/W	88 lm/W
	Emergency Output (BLF)		N/A	N/A	N/A		N/A	N/A	N/A

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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
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(lm):	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

Guarantee: 5 Year Guarantee

CONCORD BEACON MUSE 3000K SM DALI WHITE

Data Sheet 13

Item No: 2062590

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 ⌀80mm 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

Product name	CONCORD BEACON MUSE 3000K SM DALI WHITE
Technology	LED
Cap/Base	N/A
Housing	Aluminium
Mount	Ceiling surface mounting, Wall surface mounted
Fixture rating	Enclosed
General application	Museums & Galleries, Retail, Hospitality
Operating temperature range (°C)	-10°C...+35°C
ETIM Class	EC001744
Warranty	5 years

Optical data

Useful luminous flux (Φuse)	1000
Fixture luminous flux (lm)	980
Luminaire efficacy (lm/W)	55
LOR (%)	100
Correlated colour temperature (k)	3000
Light colour	Warm White
CRI (Ra)	97
Colour Variation Initial (SDCM)	SDCM2
Luminous Intensity (cd)	980
Beam Angle (°)	55
Distribution type	Symmetric
Photobiological Risk Group	RG1

Electrical data

Total power consumption (W)	18
Current (A)	0.084
Primary Supply/Product voltage - min (V)	220.0
Primary Supply/Product voltage - max (V)	240.0
Lamp power factor	0.9
THD (at 230 V, 50 Hz, full load, at 100% dimming level) ≤ xx.x %	10
Electrical protection	Class II
Control gear type	LED driver constant current
Dimmable	Yes
Dimming method	DALI
Minimum dimming level (%)	1
Drive current (mA)	500
Inrush Current (A)	16
Inrush Duration (µs)	100
Energy Efficiency Class (A->G) of contained light source	F
Nominal Frequency (Hz)	50/60Hz
Max. products per 10A C Breaker	50
Max. products per 16A C Breaker	70
Max. products per 16A B Breaker	55

Lifetime data

Lifespan L70 B50	100000
Lifespan L80 B50	100000
Lifespan L90 B50	49000

CONCORD BEACON MUSE 3000K SM DALI WHITE

Item No: 2062590

Physical data

Housing colour	RAL 9016 - Traffic white / Bezel
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	5025768625901
Packaging single length / height (cm)	30.5
Packaging single width (cm)	13.5
Packaging single depth (cm)	20.5
DUN14 (inner)	05025768625901
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

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

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(lm):	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
Housing Material:	Aluminium
Material Finish:	Powder Coated

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

Guarantee: 5 Year Guarantee

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

Item No: 9200502

SYLVANIA

Data Sheet 15

CE ⏚ UKCA

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 x 30.7 x 37.8 mm (L x W x H), white (RAL 9010).

Technical Assets

Dimensions (mm)
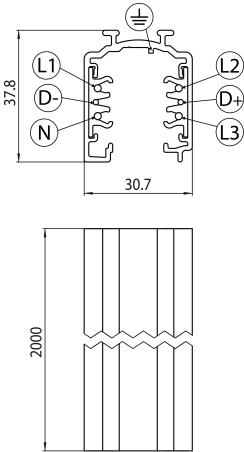
Photometrics

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

Item No: 9200502

SYLVANIA

General data

Product name	ONETRACK 2M WHITE 9000A-2/W-ST
Technology	Accessory
Accessory type	Electrical
Type of accessory	Track
Housing	Aluminium
Mount	Suspended, Ceiling surface mounting, Wall surface mounted
General application	Museums & Galleries, Office
ETIM Class	EC000101
Warranty	5 years

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
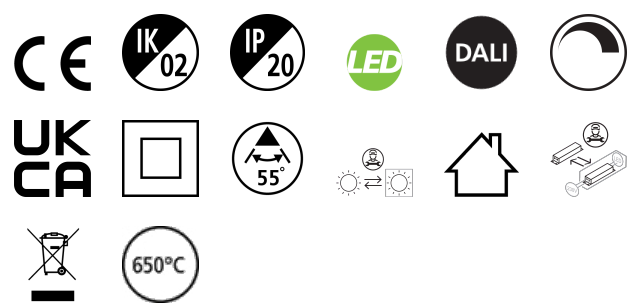
Simple and slick integral design with no driver box and without any visible screws New technology utilization for improved performance Invisible in-track adaptor for an impressive architectural look Extremely precise light beams due to the high-quality lens ⌀80mm die-cast aluminium body, Adjustable beam 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)
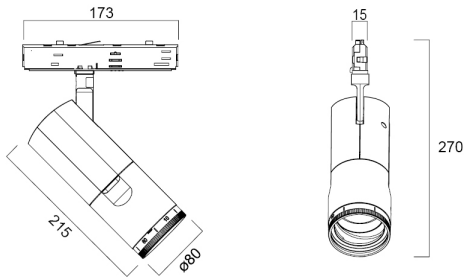
Photometrics
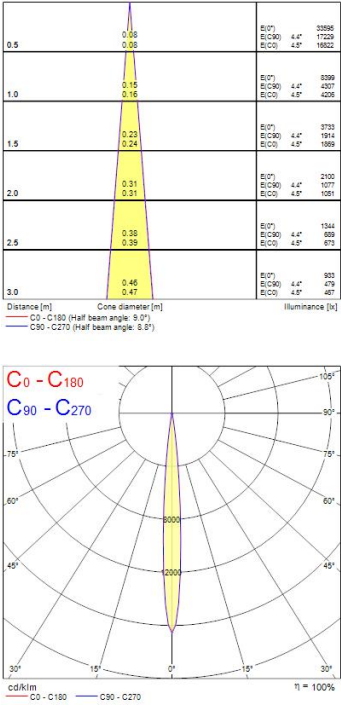
CONCORD BEACON MUSE 3000K DALI WHITE

Item No: 2062584

Concord

General data

Product name	CONCORD BEACON MUSE 3000K DALI WHITE
Technology	LED
Cap/Base	N/A
Housing	Aluminium
Mount	Track mounting
Fixture rating	Enclosed
General application	Museums & Galleries, Retail, Hospitality
Operating temperature range (°C)	-10°C...+35°C
ETIM Class	EC001744
E-number FI	4170398
Warranty	5 years

Optical data

Useful luminous flux (Φuse)	1000
Fixture luminous flux (lm)	980
Luminaire efficacy (lm/W)	55
LOR (%)	100
Correlated colour temperature (k)	3000
Light colour	Warm White
CRI (Ra)	97
Colour Variation Initial (SDCM)	SDCM2
Luminous Intensity (cd)	980
Beam Angle (°)	55
Distribution type	Symmetric
Photobiological Risk Group	RG1

Electrical data

Total power consumption (W)	18
Current (A)	0.084
Primary Supply/Product voltage - min (V)	220.0
Primary Supply/Product voltage - max (V)	240.0
Lamp power factor	0.9
THD (at 230 V, 50 Hz, full load, at 100% dimming level) ≤ xx.x %	10
Electrical protection	Class II
Control gear type	LED driver constant current
Dimmable	Yes
Dimming method	DALI
Minimum dimming level (%)	1
Drive current (mA)	500
Inrush Current (A)	16
Inrush Duration (µs)	100
Energy Efficiency Class (A->G) of contained light source	F
Nominal Frequency (Hz)	50/60Hz
Max. products per 10A C Breaker	50
Max. products per 16A C Breaker	70
Max. products per 16A B Breaker	55

Lifetime data

Lifespan L70 B50	100000
Lifespan L80 B50	100000
Lifespan L90 B50	49000

CONCORD BEACON MUSE 3000K DALI WHITE

Item No: 2062584

Concord

Physical data

Housing colour	RAL 9016 - Traffic white / Bezel
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)	0.94

Packaging

Product EAN number	5025768625840
Packaging single length / height (cm)	30.5
Packaging single width (cm)	13.5
Packaging single depth (cm)	20.5
DUN14 (inner)	05025768625840
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

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

Concord Beacon XL - 3000K

5 Year WARRANTY | IP 20 | IK 02 | ▢ | 355° | 90° | 650°C | ⌧ | CE | LED
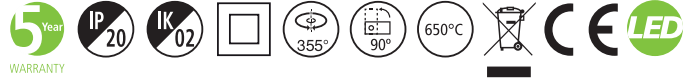
Features

- 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
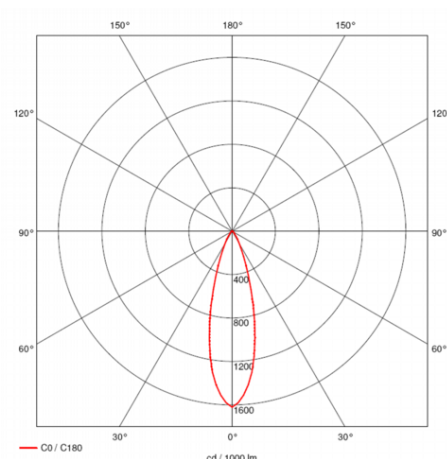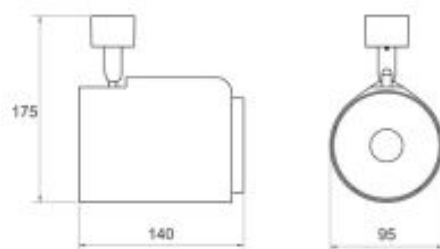
Product information

Code	Description	Finish	Fixture Power (W)	Luminous Flux (lm)	Efficacy (lm/W)	Beam Angle (°)	Colour Temp (K)	CRI	Dimmable	Control Technology	Average Rated Life (Hrs)
Beacon XL - 93 CRI - 3000K											
White - LED											
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 - Integrated 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	White	33	2802	85	50	3000	93	Yes	Onboard Pot	72,000
White - DALI											
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 - Integrated 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 - DALI											
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

sylvania-lighting.com

illuma

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):	-
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(lm):	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

Guarantee: 5 Year Guarantee

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(lm):	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

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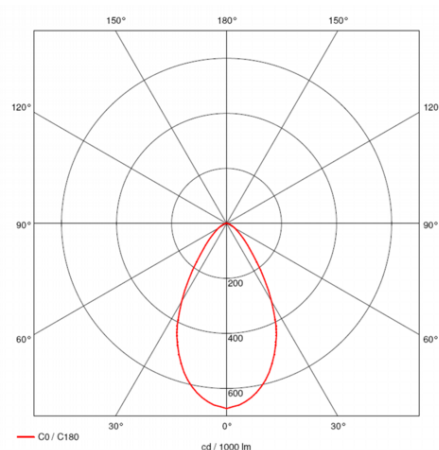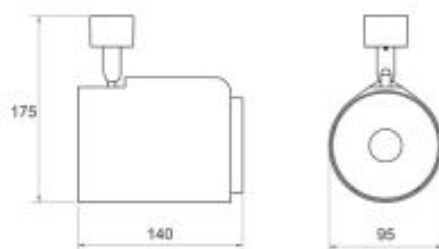For full terms and conditions visit: https://www.illuma.co.uk/terms.htm

Guarantee: 5 Year Guarantee

Encore®

LED CRI 80

Surface

8W	LED	IS1664		LED		08		+	767
14W	LED	IS1664		LED		14		+	767
19W	LED	IS1664		LED		19		+	767

Three Circuit Track

8W	LED	TT1664		LED		08		+	767
14W	LED	TT1664		LED		14		+	767
19W	LED	TT1664		LED		19		+	767

DALI Track

8W	LED	TD1664		LED		08		+	767
14W	LED	TD1664		LED		14		+	767
19W	LED	TD1664		LED		19		+	767

LED CRI 90

Surface

8W	LED	IS1665		LED		08		+	768
14W	LED	IS1665		LED		14		+	768
19W	LED	IS1665		LED		19		+	768

Three Circuit Track

8W	LED	TT1665		LED		08		+	768
14W	LED	TT1665		LED		14		+	768
19W	LED	TT1665		LED		19		+	768

DALI Track

8W	LED	TD1665		LED		08		+	768
14W	LED	TD1665		LED		14		+	768
19W	LED	TD1665		LED		19		+	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.
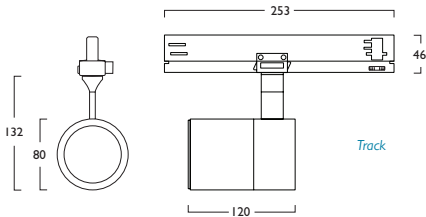 The Track requires the relevant dimming wiring
- Wireless Lighting Control available, see Connected video for full overview
- Protective glass fitted as standard
- Range of reflector options available

A	Integral Driver/Remote	
J	Switch Dim	
S	DALI Dim	
L	DALI Bluetooth	

3 Warm (3000K) **4** Neutral (4000K)

1 White (RAL 9010) **2** Urban Graphite (RAL 7046) **3** Black (RAL 9005)

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

Dimensions

78 | 153 | 32 | 133 | 80 | 120 | *Surface*
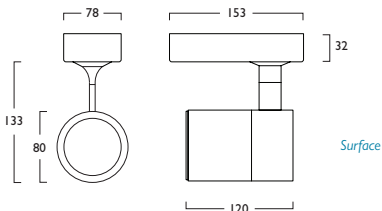
230V 50Hz | IP 20 | 90° | 347° | 130 x 50mm | 1.0 kg

253 | 46 | 132 | 80 | 120 | *Track*

230V 50Hz | IP 20 | 90° | 347° | 0.8 kg

Photometrics
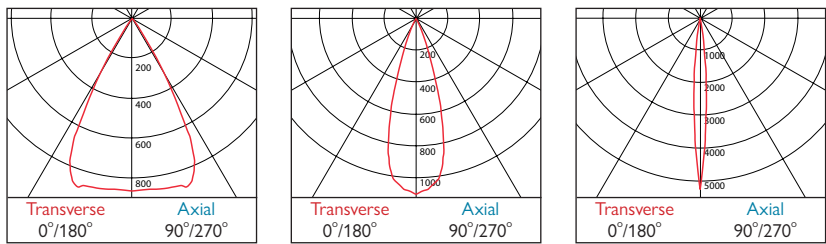
771-772 (39°)	**767-768** (25°)	**769-770** (15°)
Transverse 0°/180° — Axial 90°/270°	Transverse 0°/180° — Axial 90°/270°	Transverse 0°/180° — Axial 90°/270°

Options

Baffle Option

639 Anti Glare Baffle

* 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.

Hacel®
Fluent in Lighting

Encore®

3 Warm White LED (3000K)	CRI 80	8W	14W	19W	CRI 90	8W	14W	19W
Lumen Output		1463 lm	2605 lm	3434 lm		1186 lm	2105 lm	2774 lm
LOR		0.66	0.66	0.66		0.66	0.66	0.66
CRI		80	80	80		90	90	90
Total Power		8.6W	15.6W	21.1W		8.6W	15.6W	21.1W
Power Factor		0.95	0.95	0.95		0.95	0.95	0.95
Running Current		0.04A	0.07A	0.10A		0.04A	0.07A	0.10A
Inrush Current (Std)		5A (50us)	5A (50us)	5A (50us)		5A (50us)	5A (50us)	5A (50us)
Inrush Current (Dim)		10A (2.8us)	10A (2.8us)	10A (2.8us)		10A (2.8us)	10A (2.8us)	10A (2.8us)
Efficacy		112 lm/W	110 lm/W	107 lm/W		91 lm/W	89 lm/W	86 lm/W
Emergency Output (BLF)		N/A	N/A	N/A		N/A	N/A	N/A

4 Neutral White LED (4000K)	CRI 80	8W	14W	19W	CRI 90	8W	14W	19W
Lumen Output		1538 lm	2733 lm	3594 lm		1291 lm	2290 lm	3013 lm
LOR		0.66	0.66	0.66		0.66	0.66	0.66
CRI		80	80	80		90	90	90
Total Power		8.6W	15.6W	21.1W		8.6W	15.6W	21.1W
Power Factor		0.95	0.95	0.95		0.95	0.95	0.95
Running Current		0.04A	0.07A	0.10A		0.04A	0.07A	0.10A
Inrush Current (Std)		5A (50us)	5A (50us)	5A (50us)		5A (50us)	5A (50us)	5A (50us)
Inrush Current (Dim)		10A (2.8us)	10A (2.8us)	10A (2.8us)		10A (2.8us)	10A (2.8us)	10A (2.8us)
Efficacy		118 lm/W	115 lm/W	112 lm/W		99 lm/W	96 lm/W	94 lm/W
Emergency Output (BLF)		N/A	N/A	N/A		N/A	N/A	N/A

3 Warm White LED (3000K)	CRI 80	8W	14W	19W	CRI 90	8W	14W	19W
Lumen Output		1463 lm	2605 lm	3434 lm		1186 lm	2105 lm	2774 lm
LOR		0.66	0.66	0.66		0.66	0.66	0.66
CRI		80	80	80		90	90	90
Total Power		8.4W	15.4W	20.7W		8.4W	15.4W	20.7W
Power Factor		0.92	0.96	0.97		0.92	0.96	0.97
Running Current		0.04A	0.07A	0.09A		0.04A	0.07A	0.09A
Inrush Current (Std)		3A (60us)	18A (210us)	18A (210us)		3A (60us)	18A (210us)	18A (210us)
Inrush Current (Dim)		20A (25us)	20A (25us)	20A (25us)		20A (25us)	20A (25us)	20A (25us)
Efficacy		114 lm/W	111 lm/W	109 lm/W		93 lm/W	90 lm/W	88 lm/W
Emergency Output (BLF)		N/A	N/A	N/A		N/A	N/A	N/A

4 Neutral White LED (4000K)	CRI 80	8W	14W	19W	CRI 90	8W	14W	19W
Lumen Output		1538 lm	2733 lm	3594 lm		1291 lm	2290 lm	3013 lm
LOR		0.66	0.66	0.66		0.66	0.66	0.66
CRI		80	80	80		90	90	90
Total Power		8.4W	15.4W	20.7W		8.4W	15.4W	20.7W
Power Factor		0.92	0.96	0.97		0.92	0.96	0.97
Running Current		0.04A	0.07A	0.09A		0.04A	0.07A	0.09A
Inrush Current (Std)		3A (60us)	18A (210us)	18A (210us)		3A (60us)	18A (210us)	18A (210us)
Inrush Current (Dim)		20A (25us)	20A (25us)	20A (25us)		20A (25us)	20A (25us)	20A (25us)
Efficacy		120 lm/W	117 lm/W	114 lm/W		101 lm/W	98 lm/W	96 lm/W
Emergency Output (BLF)		N/A	N/A	N/A		N/A	N/A	N/A

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Fluent in Lighting

Data Sheet 21

Length of The Head – 90mm
Width Of The Head – 58mm
Width Of The Base – 82mm

Liteplan
emergency lighting

Data Sheet 22
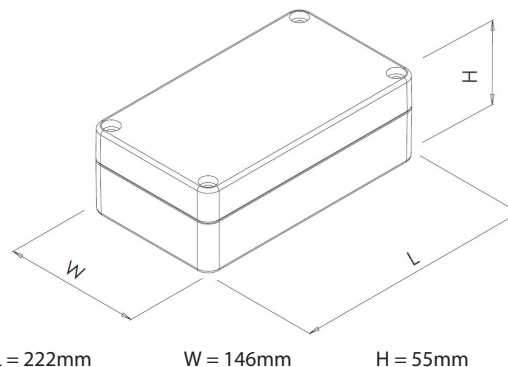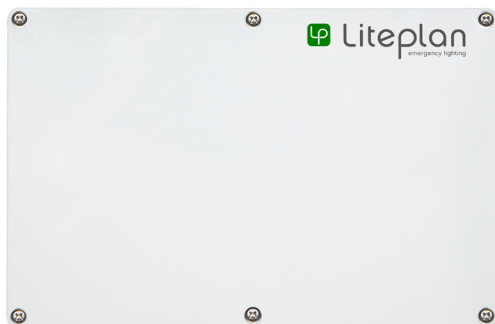
L = 222mm   W = 146mm   H = 55mm

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 °C
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

CE