

Technical Submittal Document



Project Name: Circle Square 3		Project Number: 68B227	
Description: External Lighting		Issue Number: TS-17	Revision: P03
Date Issued: 04/10/2024		Date Response Required: 18/10/2024	
Completed by: John Diskin		Approved by:	
Technical Details:		Technical Authorisation by:	
Description: Technical Submittal of external lighting bollards, L1 & L2			
Reference Information: - Specification - Drawings - Materials / Workmanship Specification - Design Criteria - Equipment Schedule - - - - -		Included? (Yes, No, N/A) Yes	
Compliance Statement: - List any non-compliances (Technical, Part L etc.) - - -		Yes	
CDM & Designing for Safety Implications:		No	
Interfaces: - - -		Yes	
Manufacturers Information:		Yes	
Technical Drawings:		Yes	
BIM Information:		Yes	
Calculations:		Yes	
Technical Data:		Yes	
Recipients:	MEP Consultant:	CWC	
	Principal Contractor:	GMI	
	Other:		

Technical Submittal Document



Project Name:	Circle Square 3	Project Number:	68B227	
Description:	External Lighting	Issue Number:	TS-17	Revision: P01
Consultant Comments:				
Approval Status (M&E Consultant)	-			
Principal Contractors Comments				
Approval Status (Principal Contractor)	-			

Alpha LED Decorative

EMERGENCY LUMINAIRES

Ref. EM5

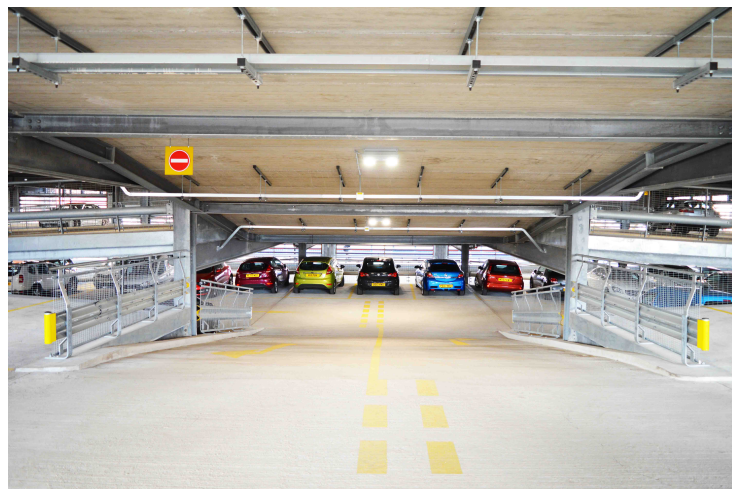


CE UK
CA

IK08

IP65

LED



Description

The Alpha LED utilises an IP65 body specifically designed to maximise the distribution from the enclosed 16 high output LEDs.

Application

- Offices
- Public Areas
- Hotels
- External Areas

Body & Finish

A poly-carbonate moulded body fixed together with stainless steel screws gives this emergency fitting an IP65 rating.

Attachments



Order Codes

Wattage	Length	Width	Depth	Maintained	Product Codes
3.0	240 mm	130 mm	50 mm	No	SGL/LED/EB/NM3
3.0	240 mm	130 mm	50 mm	Yes	SGL/LED/EB/M3

Additional lumen outputs are available due to mA ratings and codes may vary from those stated. Please contact us for further details.

Sizes

- Length: 240mm
- Width: 130mm
- Depth: 50mm



Control Gear

Tridonic/OSRAM

- Standard LED Emergency
- Self-Test LED Emergency
- Addressable EM-Pro LED Emergency
- WI-FI

Code Options

- Add /ST to codes for Self Test Emergency
- Add /AD to codes for Addressable Emergency
- Add /EMPRO to codes for EMPRO Emergency
- Add /WI-FI to codes for Wireless Bluetooth
- Add /S+AL to codes for Sign + Arrow Left
- Add /S+AR to codes for Sign + Arrow Right
- Add /S+AU to codes for Sign + Arrow Up
- Add /S+AD to codes for Sign + Arrow Down

Main Attributes

- Non-Maintained & Maintained Versions
- Valve Regulated Lead Acid Battery
- 220-240V Input
- 50,000h L90 at 25°C
- IP65 Rated
- Healthy Charge LED
- EN60598:2:22 Compliant
- 7 Year Guarantee*
- CE Marked

* Please refer to the Warranty for more information.

LED Boards

- Tridonic/OSRAM LED
- Colour Temperatures Available: 6000k/6500k
- All LED data and performance data is taken at an ambient temperature of +25°C

Photometrics

-



Description

IP66. Class I. Class II on request. IK08. Marine-grade, die-cast aluminium alloy. 5CE superior corrosion protection including PCS hardware. Silicone CCG® Controlled Compression Gasket. RFC® Reflection Free Contour main lens. Integral EC electronic converter in thermally separated compartment. DALI. CAD-optimised optics for superior illumination and glare control. OLC® One LED Concept. Factory installed LED circuit board. The luminaire is factory-sealed and does not need to be opened during installation.

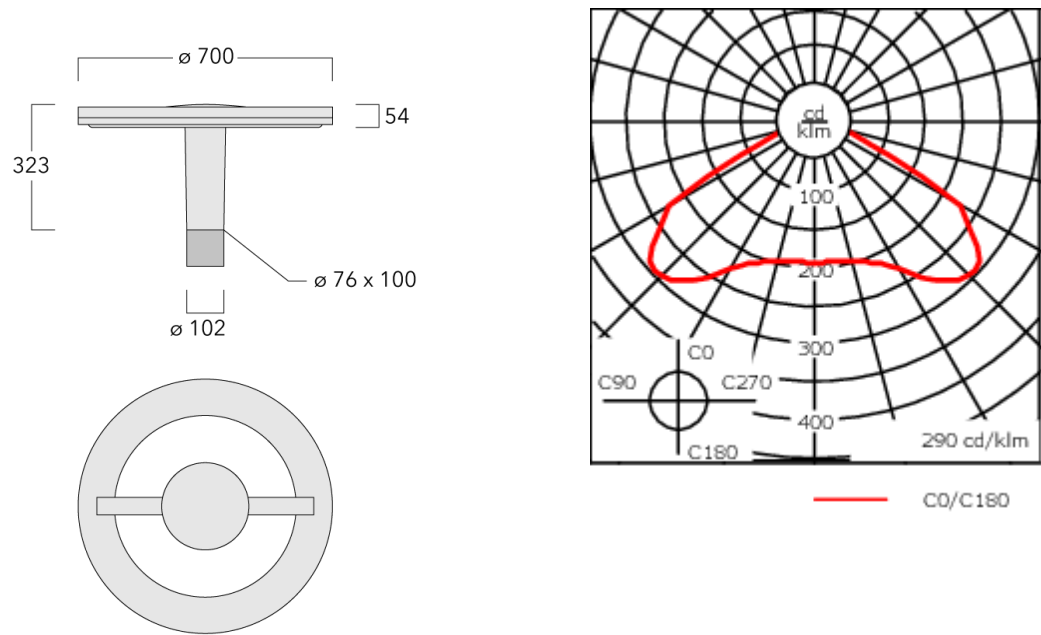
Variant with 2200 K or for [C50] light distribution also available as 'Wild-Light' - 2200 K combined with 3000 K with Eco Step Dim® Advanced or Motion available on request, must be specified at time of ordering. For further details and available variants see below under additional information – Wild-Light Presentation.

Contact WE-EF direct or your local WE-EF sales representative for an individual solution designed to precisely meet your needs.

Weight	13.30
Light distribution	controlled symmetric distribution [C50]
Light source	LED-36/36W / 350 mA - 4000 K
CRI	80
Power supply	EC

Nominal Lumen (lm)	
LED Lumen	170.0 lm
LEDs	36
Total Lumen	6120.0 lm
Tj	85°C

Rated lumens (lm)	
LED Lumen	160.4 lm
Total Lumen	5775.9 lm
Ta	25°C
Rated input power	39 W



Specifications
Material description

Body	Marine-grade, die-cast aluminium alloy
Lens	PMMA RFC® Reflection Free Contour technology
Colours	RAL9004 Signal black RAL9006 White aluminium RAL9007 Grey aluminium RAL7016 Anthracite grey RAL9016 Traffic white
Gasket	Silicone CCG® Controlled Compression Gasket
Fasteners	PCS Polymer Coated Stainless Steel Hardware
Ingress protection	IP66
Impact resistance	IK08
Corrosion resistance	5CE
Windage	0.24 m ²

Electrical description

Power supply	220-240V / 50-60 Hz
Driver / Ballast	Integral EC electronic converter. DALI
Termination	
Power factor	> 0.9
Surge protection	6/6 kV (optional SP10)

105-0077

CFT540 LED



Additional information

Lifetime	Ta=25° L90B10 > 90000h
Energy efficiency class	C-D (Light source)

Control

Eco Step Dim® Basic

Description	Part ID
Eco Step Dim® Basic LED	430-0001

Eco Step Dim® Advanced

Description	Part ID
Eco Step Dim® Advanced LED	430-0002

Wild-Light Eco Step Dim® Advanced

Description	Part ID	Text
Wild-Light Eco Step Dim® Advanced	430-0034	Fully automatic independent dimming pre-set, without additional installation effort, Example: Starting the night with warm white (3000 K from 20:00 to 22:00), reduced to biodiversity friendly in the heart of the night (2200 K from 22:00 to 06:00), and returning back to warm white in the early morning (3000 K from 06:00 to 07:00). This is the easiest to implement solution to create a nature-friendly lighting scenario, as no additional installations or external controls are needed. All pre-settings are made in the two LED drivers. The dimming values are programmed into the driver during the production of the luminaires. An optional link with sunrise and sunset times can mean additional optimisation. A customer-specific configuration is possible. The settings can be changed directly on the LED driver at any time (NFC). The necessary tool is standardised and can also be obtained from WE-EF as an optional extra.
Wild-Light Motion	430-0035	

Citygrid Motion On Pole

Description	Part ID	Text
Citygrid Motion - Entry-Package	420-0011	Citygrid Motion. Das All-in-One Gerät, das vorhandene Leuchten in ein intelligentes Lichtsystem verwandeln kann. Einstiegs-Paket WE-EF liefert und konfiguriert Leuchten und Citygrid System einmalig ab Werk bzw. am Einsatzort. Neukonfiguration als Service abrufbar (kostenpflichtig). Gateway/App nicht inbegriffen. Anwendungen: Kommunale Einzelprojekte, Insellösungen und Feldversuche für Smart Lighting, z.B. einzelne Straßen, Wege oder Plätze. Halböffentliche oder private Projekte, z.B. Firmengelände, Parkplatz.

Description	Part ID	Text
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Citygrid Motion - Standalone-Package	420-0012	Citygrid Motion On Pole Controller. The Citygrid Motion On Pole Controller is the all-in-one device that can convert existing luminaires into an intelligent lighting system. The standalone package: Dongle & apps included; operators can configure, change and service the Citygrid system themselves (on site) using the apps on their mobile device. Applications: demarcated communal projects (street, square, district) or private projects (larger company sites, commercial estates) if qualified personnel are available for the operation of the system.
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Description	Part ID	Text
Citygrid Motion - Smart-City-Package	420-0013	Citygrid Motion On Pole Controller The Citygrid Motion On Pole Controller is the all-in-one device that can convert existing luminaires into an intelligent lighting system. The Smart-City package: Internet gateway (via mobile phone) and dashboard included; operators can configure, change and service themselves (remotely). Networked Smart-City functions (data collection, remote maintenance, etc.). Applications: larger communal projects or field trials in the context of Smart City; operator has qualified personnel (municipal utilities).



Wild-Light Citygrid Motion On Pole

Description	Part ID	Text
Wild-Light Citygrid Motion - Entry-Package	420-1111	Citygrid Motion On Pole Controller. The Citygrid Motion On Pole Controller is the all-in-one device that can convert existing luminaires into an intelligent lighting system. The entry-level package: WE-EF supplies and configures luminaires and the Citygrid system once ex works or on site. Reconfiguration is available as a service (chargeable). Gateway/app not included. Applications: individual communal projects, isolated solutions and field trials for smart lighting, e.g. single streets, paths or squares. Semi-public or private projects, e.g. company site, car park.

Description	Part ID	Text
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Wild-Light Citygrid Motion - Standalone-Package	420-1112	Citygrid Motion On Pole Controller for Wild-Light. The Citygrid Motion On Pole Controller is the all-in-one device that can convert existing luminaires into an intelligent lighting system. The standalone package: Dongle & apps included; operators can configure, change and service the Citygrid system themselves (on site) using the apps on their mobile device. Applications: demarcated communal projects (street, square, district) or private projects (larger company sites, commercial estates) if qualified personnel are available for the operation of the system.
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Description	Part ID	Text
Wild-Light Citygrid Motion - Smart-City-Package	420-1113	Citygrid Motion On Pole Controller for Wild-Light. The Citygrid Motion On Pole Controller is the all-in-one device that can convert existing luminaires into an intelligent lighting system. The Smart-City package: Internet gateway (via mobile phone) and dashboard included; operators can configure, change and service themselves (remotely). Networked Smart-City functions (data collection, remote maintenance, etc.). Applications: larger communal projects or field trials in the context of Smart City; operator has qualified personnel (municipal utilities).



105-0077

CFT540 LED

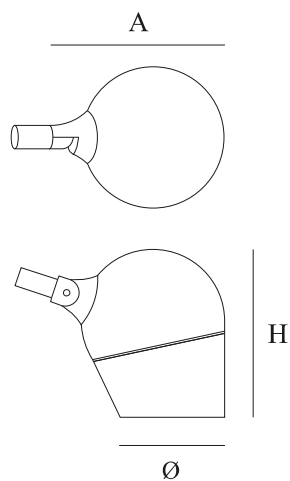
Fagerhult Lighting Ltd

33-34 Dolben Street, SE1 0UQ London, United Kingdom

<https://we-ef.com/uk>

Subject to technical changes and errors. - Generated on 17/04/2024

Olivio Medio SX 961 12-9



luminaire head

rotation symmetrical 80° ($\pm 40^\circ$), wide beam
LED, 3000 lm, 3000 K, CRI > 80, electronic converter, Total power: 26 W

to be mounted on Olivio Candelabra, Sistema or Floracion poles and brackets, luminaire housing made of die-cast aluminium, painted, aluminium, screws made of stainless steel, adjustable head joint ensures precise direction of luminaire head, wide pivoting range from 20° to 195°, can be rotated $\pm 180^\circ$, shielding made of safety glass, Optical system: flood reflector
hidden cable entry through the head joint, incl. 10m feed cable, easy maintenance access via lockbar mechanism

Certifications

CE, IK08, IP67, Protection Class II, optional I

colour: Selux Graphite

Height H: 260 mm
Diameter Ø: 163 mm
Outreach : 260 mm
Weight: 6 kg
Windpressure: 0,05 m²



Modifications are possible due to the constant development and improvement of LED technology.

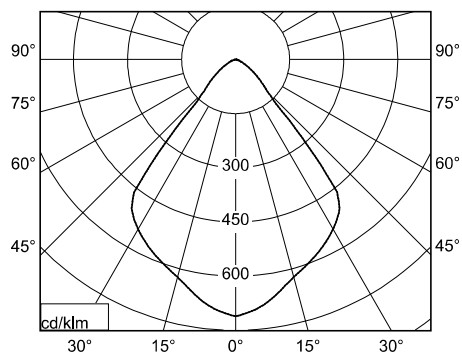
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Selux GmbH, Volkmarstr. 18, 12099 Berlin, T +49 30 72001-0, F -100, info@selux.com, www.selux.com

Olivio Medio

SX 961 12-9

Technics



Photometric data: 8481
Upward light ratio (ULR): 0 %

Lamp

LED 3000lm, 26W, 3000 K, CRI > 80

Optic

flood reflector · wide beam

Electrics

electronic converter · Total power: 26W · 10m
feed cable
control options:
dynamic · DALI · fix value · CLT · HNS ·
AmpDim · individual power reduction in 300
lumen steps ex work ·

Luminous flux characteristics / Operating time of LED

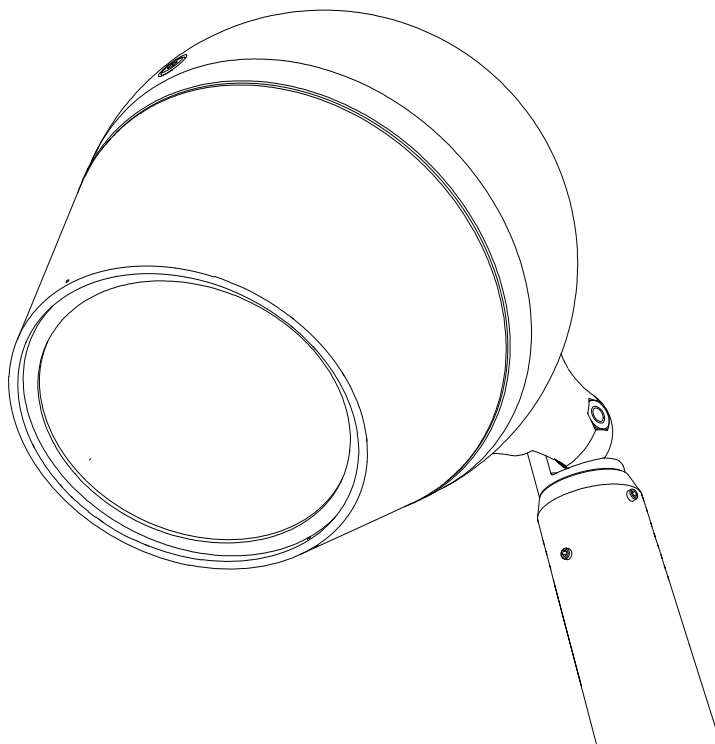
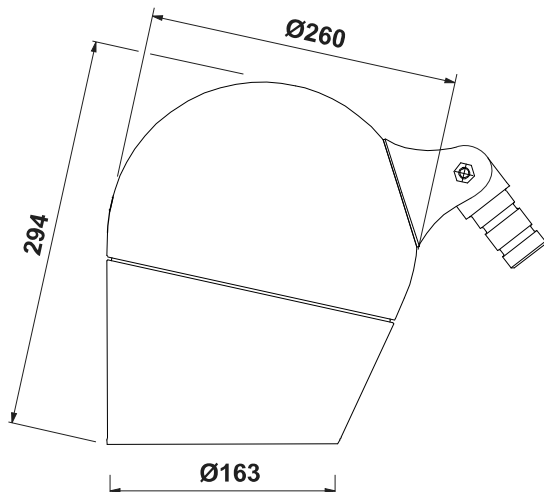
	20000	40000	60000	80000
Operating time LED				
Lumen maintenance	95%	92%	89%	86%
LLMF*	0.95	0.92	0.89	0.86

* = Lamp lumen maintenance factor

• Montageanleitung • Mounting Instructions •

Deutsch

English



Gewicht / Weight : **5,6 Kg**

Max. LPH : **15000mm**

Aw. : **0,05 m²**

Wartungshinweis zum Leitungswechsel **service instructions for change of cable**

	Anschluss- art typ of connection	Beschreibung description
	X	Speziell vorbereitete Leitung ist austauschbar. Especially prepared connection is replaceable.
✓	Y	Leitung ist nur vom Fachpersonal bzw. vom Hersteller austauschbar. Connection must be replaced by a suitably qualified person or by manufacturer.
	Z	Leitung ist nicht austauschbar. Connection is not replaceable.

Artikelnr. artical no.	Netzstrom mains power in [A]	Leistungsfaktor power factor λ
SX 961 **.*	0,15	$\geq 0,90$



IP67



27-06.2018

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OLIVIO Medio LED
SX 961 ...-

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• Wichtige Hinweise • Important Information •



Deutsch



• **Es ist zwingend notwendig, vor Beginn jeder Installation, Überprüfung oder Wartung die Netzspannung zu unterbrechen.**



• Montage und Wartung darf nur von geschultem Fachpersonal mit entsprechender beruflicher Qualifikation in Übereinstimmung mit den neuesten elektrischen Installations- und Sicherheitsvorschriften durchgeführt werden.

• Für die Installation und für den Betrieb dieser Leuchte sind die nationalen Sicherheitsvorschriften zu beachten.
Der Hersteller übernimmt keine Haftung für Schäden die durch unsachgemäßen Einsatz oder Montage entstehen.
Werden nachträglich Änderungen an den Leuchten vorgenommen, so gilt derjenige als Hersteller, der diese Änderungen vornimmt.

• Leuchte ohne Anschlussklemme.
Für den Anschluss können Hinweise von Fachpersonen erforderlich sein.

• Die zu verwendende Anschlussklemme kann eine Schraubklemme oder schraubenlose Klemme sein.
Die Klemme muss für 220-230V, 50-60Hz, 6A, 1-1,5mm² geeignet sein.

• Die Steuerleitungen sind gegenüber den Versorgungsleitungen basisisoliert.

• Nicht in die aktive Leuchtquelle starren!



• Die Leuchte darf nur vollständig mit ihrer Schutzabdeckung betrieben werden.

• Technische und grafische Änderungen vorbehalten.

Reinigen der Leuchte

• Die Reinigung ist mit einem angefeuchteten weichen Tuch vorzunehmen.

• Nur lösungsmittelfreie Reinigungsmittel verwenden.

• Für die Gehäusereinigung dürfen keine Hochdruckreiniger verwendet werden.

• **Montageanleitung aufbewahren.**

English



• **Mains voltage must be switched off before mounting or maintenance.**



• The luminaire must be installed and maintained by a suitably qualified person in compliance with latest installation and safety regulations.

• Installation and operating of this luminaire are subject to national safety regulations. The manufacturer is not liable for damage caused by improper use or installation. If any luminaire is subsequently modified, the person responsible for the modification shall be considered as manufacturer.

• Luminaire without connecting terminal.
For the connecting of luminaires, the instruction by a qualified person could be required.

• The connection terminal to be used can be a screw terminal or screw terminal be loose clamp.
The terminal must be rated for 220-230V, 50-60Hz, 6A, 1-1,5mm².

• The control cables are base-insulated against the supply lines.

• Do not stare at the operating light source!



• The luminaire shall only be used complete with its protective shield

• Technical amendments and graphical presentation are subject to change.

Cleaning of luminaire

• A dampened soft cloth is to be used.

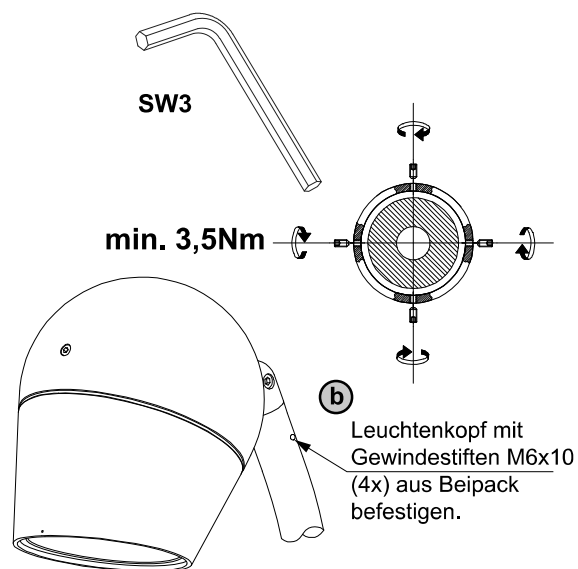
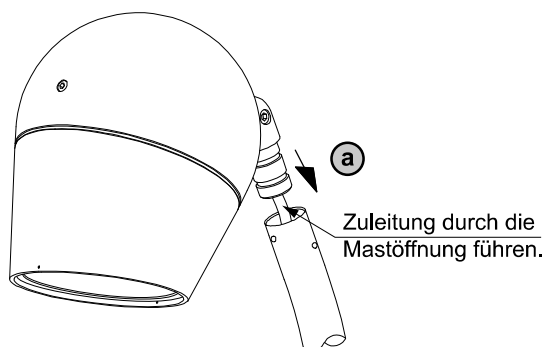
• Use only solvent-free cleanser.

• For cleaning do not use a high-pressure cleaner.

• **Keep these mounting instructions.**

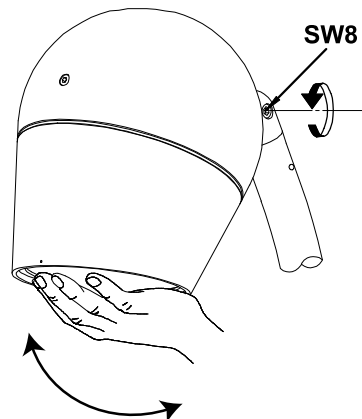
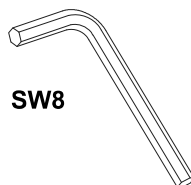
• Montageanleitung • Mounting Instructions •

1 Leuchtenkopfmontage



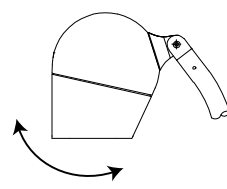
2 Leuchtenkopf ausrichten

a Justierschraube mit Sechskantstiftschlüssel (Schlüsselweite 8) soweit lösen bis sich der Leuchtenkopf reibungslos bewegen lässt.

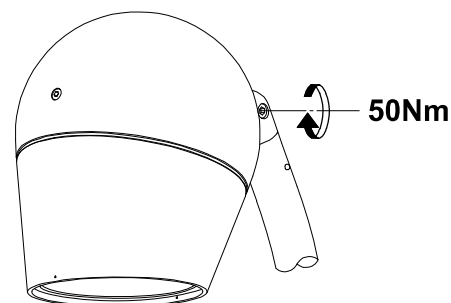


Hinweis:
Beim Lösen der Justierschraube den Leuchtenkopf unbedingt festhalten.

b Leuchtenkopf wie gewünscht ausrichten.

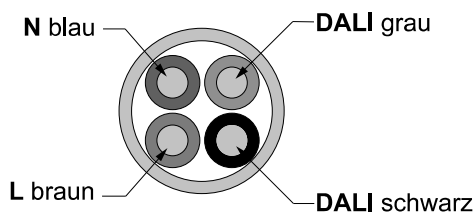


c Nach dem Ausrichten des Leuchtenkopfes die Justierschraube mit 50Nm festziehen.

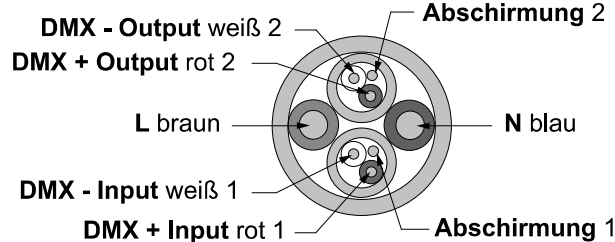


Hinweis:
Unbedingt auf korrekte und schlüssige Verzahnung des Gelenkes achten.

DALI



DMX



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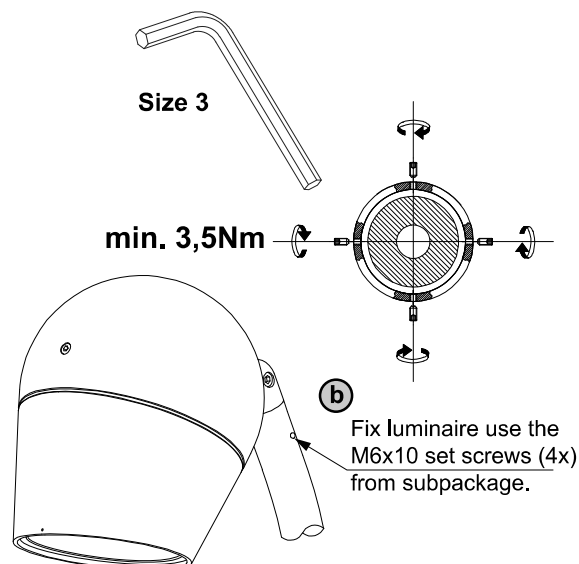
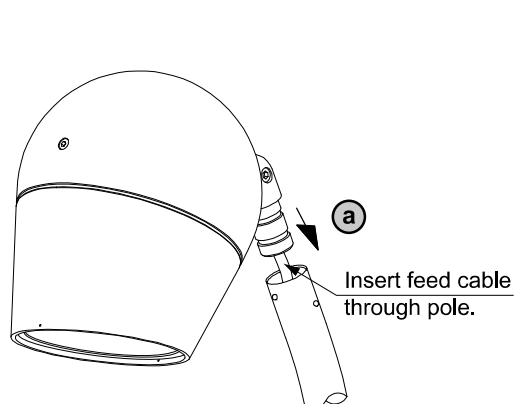
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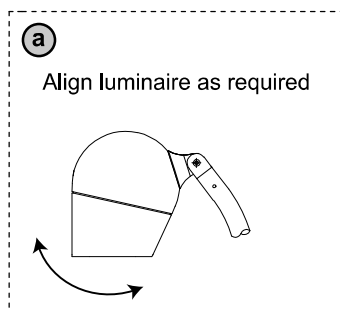
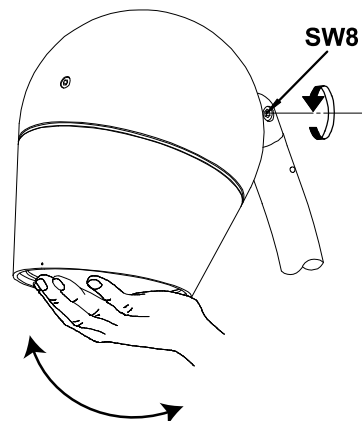
• Montageanleitung • Mounting Instructions •

1 To mount the luminaire head

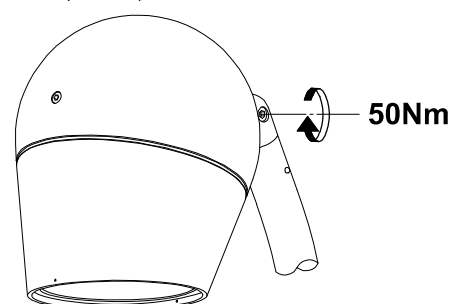


2 To align luminaire head

a Loosen the adjusting screw using the allen key size 8 until you can move the luminaire easily and frictionless.



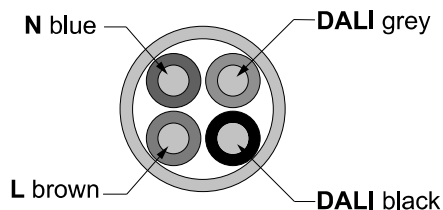
c After alignment tighten the adjusting screw (50Nm).



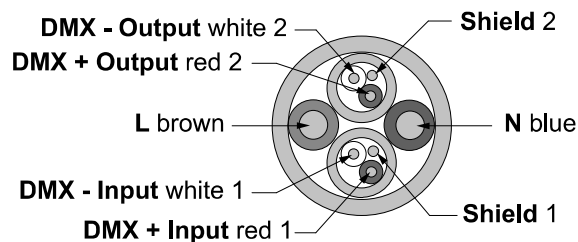
Please Note:
Keep hold of the luminaire when loosening the adjusting screw.

Please note:
It is the imperative that the joint connecting the luminaire to the pole is correctly aligned.

DALI



DMX



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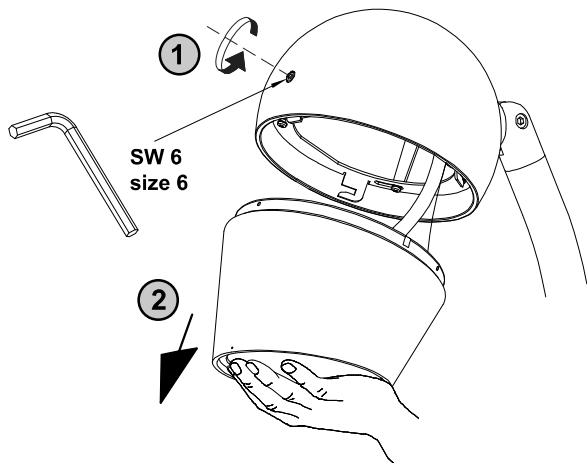
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WARTUNG / MAINTENANCE

- LED-Modul austauschen
- Exchange LED-module

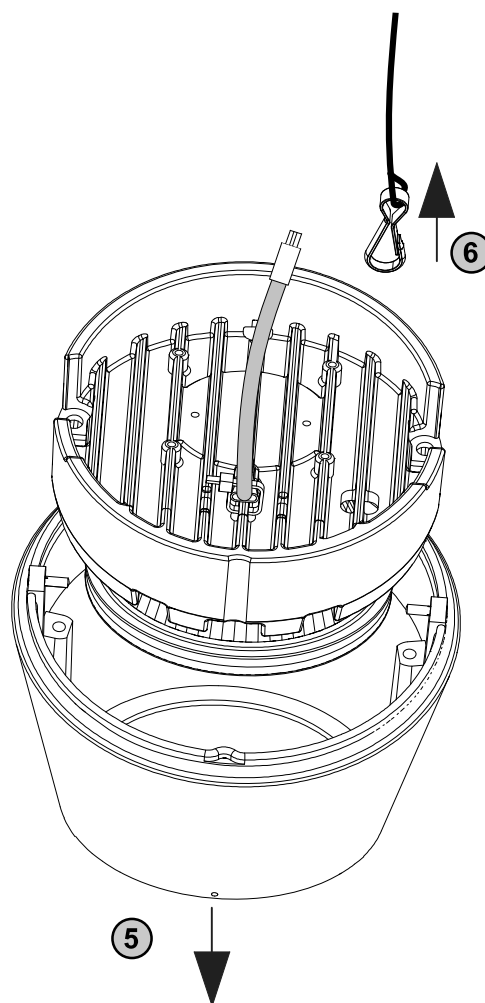
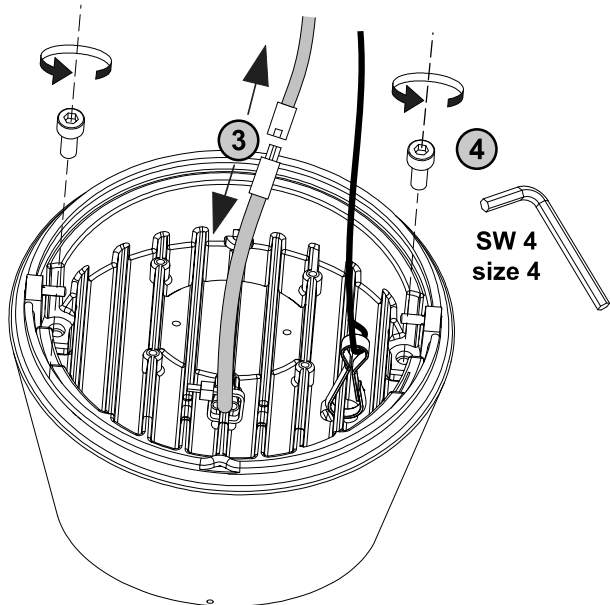


Leuchtenkopf öffnen - open the luminaire

Dazu Verschußschraube bis Anschlag lösen und das Unterteil des Leuchtenkopfes abnehmen.
Loosening the locking screw as far as it will go and removing the lower part of the luminaire.

Hinweis - Please note

Das Unterteil des Leuchtenkopfes muss beim Öffnen unbedingt festgehalten werden.
(Das Unterteil wird durch ein Fangseil gesichert.)
Keep hold of the lower part of the luminaire when opening.
(An arrester cable is provided to hold the two parts of the luminaire together.)

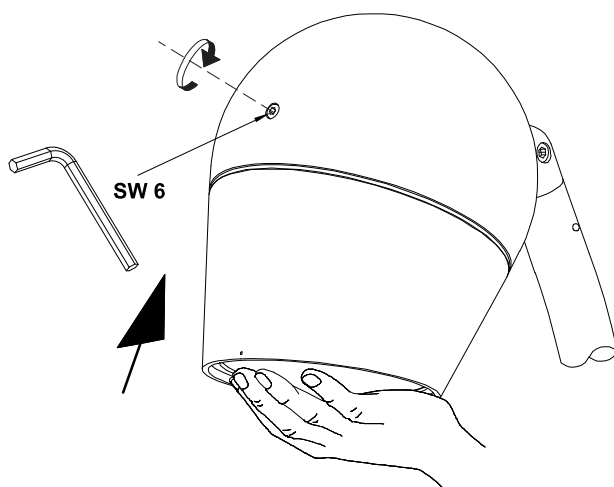
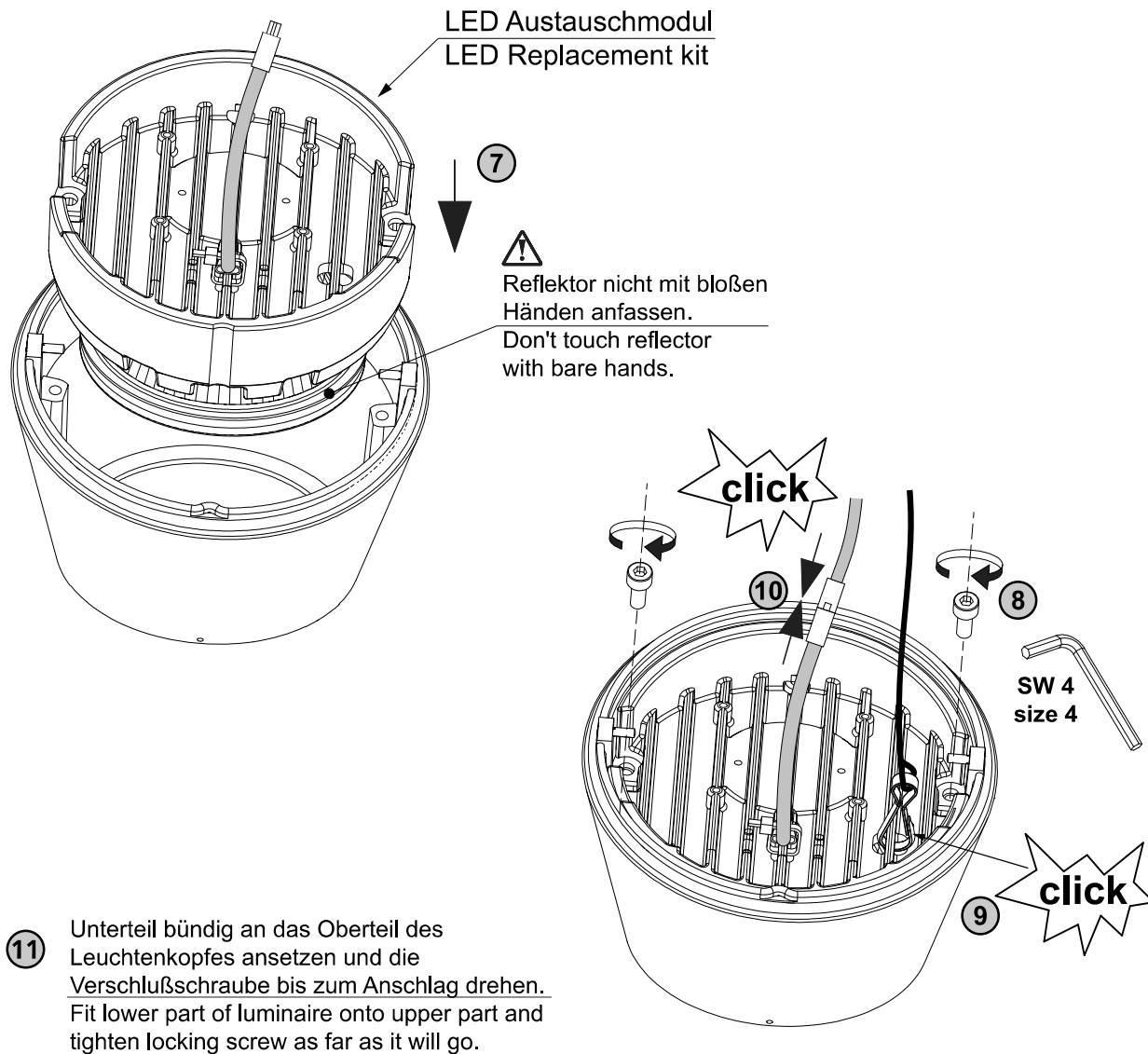


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• Montageanleitung • Mounting Instructions •

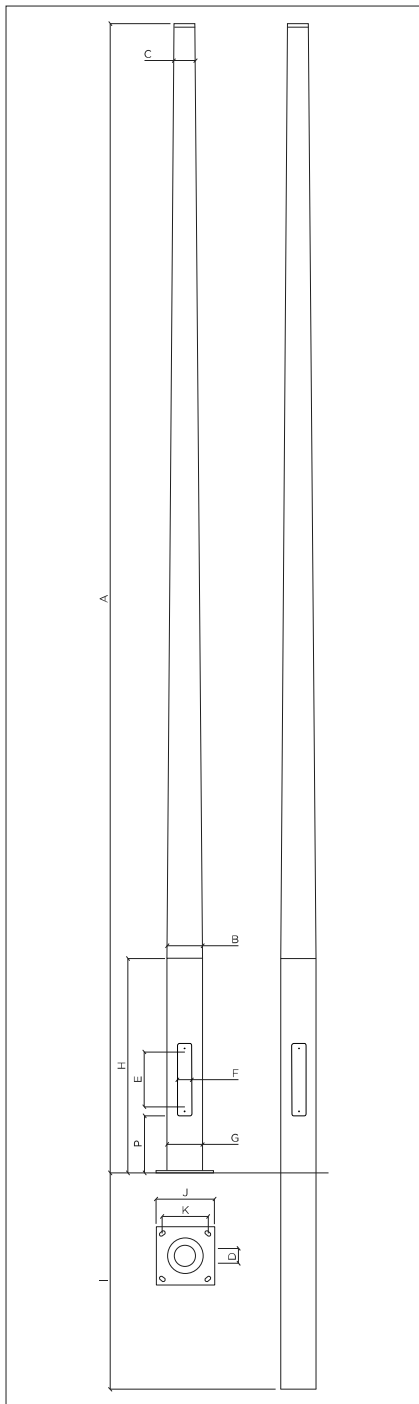
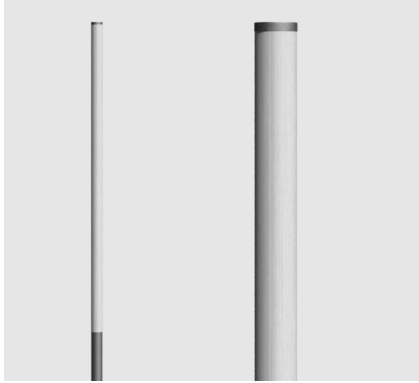


DÔME XL

Round tapered columns from 3 m to 10 m

AUBRILAM

Sistema Timber
Column



A	B	C	D	E x F	P	G	H	I	J	K	L	
m	mm	mm	mm	mm	m	mm	m	m	mm	mm	mm	kg
3	115	76	61	300 x 90	0.35	115	1.00	0.80	271 x 271	200 x 200	4 HA20/M18 - 400	19
4	115	76	61	300 x 90	0.35	115	1.00	0.80	271 x 271	200 x 200	4 HA20/M18 - 400	21
4	140	76	93	350 x 90	0.35	140	1.10	0.90	271 x 271	200 x 200	4 HA20/M18 - 400	27
5	115	76	61	300 x 90	0.35	115	1.00	0.80	271 x 271	200 x 200	4 HA20/M18 - 400	24
5	140	76	93	350 x 90	0.35	140	1.10	0.90	271 x 271	200 x 200	4 HA20/M18 - 400	30
5	168	120	125	450 x 90	0.35	168	1.20	1.30	271 x 271	200 x 200	4 HA20/M18 - 400	42
6	140	76	93	400 x 90	0.35	140	1.10	0.90	271 x 271	200 x 200	4 HA20/M18 - 400	33
6	168	120	125	450 x 90	0.35	168	1.20	1.30	271 x 271	200 x 200	4 HA20/M18 - 400	48
7	168	120	125	450 x 90	0.35	168	1.20	1.30	400 x 400	300 x 300	4 HA20/M18 - 400	54
7	194	140	148	450 x 100	0.35	194	1.20	1.40	400 x 400	300 x 300	4 HA20/M18 - 400	71
8	194	140	148	450 x 100	0.35	194	1.20	1.40	400 x 400	300 x 300	4 HA20/M18 - 400	78
8	220	140	175	500 x 100	0.35	220	1.35	1.50	400 x 400	300 x 300	4 HA20/M18 - 400	112
9	194	140	148	450 x 100	0.35	194	1.20	1.40	400 x 400	300 x 300	4 HA20/M18 - 400	86
9	220	140	175	500 x 100	0.35	220	1.35	1.50	400 x 400	300 x 300	4 HA20/M18 - 400	121
10	220	140	175	500 x 100	0.35	220	1.35	1.50	400 x 400	300 x 300	4 HA20/M18 - 400	130
10	245	140	195	500 x 120	0.35	245	1.50	1.50	400 x 400	300 x 300	4 HA20/M18 - 400	153

A. Pole height / B. Shaft diameter at base / C. Shaft diameter on top / D. Door: Effective depth / E x F. Door: Effective height x width / P. Distance door bottom to plate / G. Base diameter / H. Base height / J. Base plate dimensions / K. Spacing dimensions / L. Anchor bolts / KG. Wooden pole weight.

Round tapered shaft

Round tapered shaft in glued laminated timber GL24H certified ACERBOIS GLULAM, produced with sawn planks from sustainably managed forests and respecting HTE process. Timber finished with four coats of woodstain. Round flush base in galvanized steel and polyester powder coated finish. Overlying top in pressed galvanized steel, polyester powder coated finish. Design and manufacture according to rules defined by DEE 120017-00-0106 Wood and metal lighting columns and specifications from European Technical Approval ETA-18/0016. CE marked product: Conformity certificate CE 0679-CPR-0473.

Finish

Wood and metal finish to be selected from within the range of colours available in our colour chart. Other metal colours upon request.

Fixing

Fixing of the flange plate or buried root, on consultation. Anchor bolts supplied on request only.

Column Metal

Grey 2900 Sanded (Gris 900)

Column Timber

Dark Mineral

Luminaire & Bracket

Selux Graphite

Column Mounting

Root Mounted

Benefits

- scots pine heartwood selected
- non-chemically treated wood
- design according to the HTE (High Strength Outdoor) process based on the principle of a shaft reconstituted from four glued laminated timber planks by a double cross-lamination process and guaranteeing a high outdoor performance of the product.

Lifespan

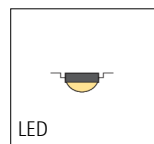
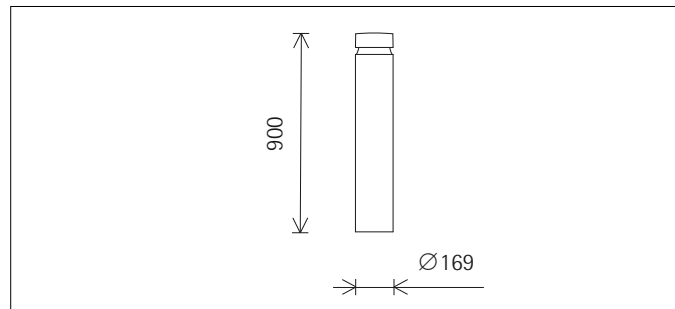
According to our raw material supply specifications and the CSTB, our products have a structural life of 25 years (CE marking).

Maintenance

In order to maintain the performance of the columns and their aesthetics, it is advisable to plan periodic maintenance every 7 years (5 years on sites exposed to the sea front) by renewing the finish. This operation does not require any particular expertise or removal of the columns. Aubrilam can assist you in this process by providing its products, application protocol or technical staff.

The declaration of performance for this product is available in the Documentation tab of the website www.aubrilam.com





CE ENEC   

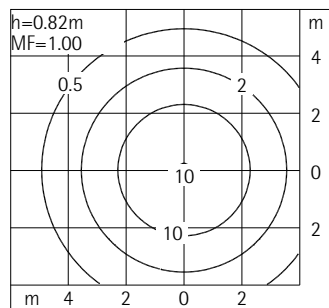
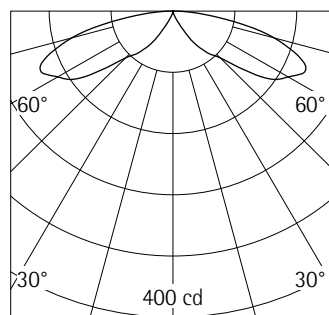


33933.000 Graphit m
LED module: 24.2W 2869lm 3000K
warm white
DALI-2
Version 3
Radial beam (360°)

Product description

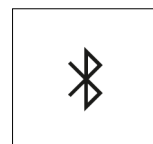
For mounting on accessories.
Bollard: corrosion-resistant aluminium profile, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt.
Upper cover and base plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Base plate for mounting on ground socket, concrete anchor or mounting plate.
2 cable entries. Through-wiring possible. 4 terminals.
DALI control gear.
LED module: high-power LEDs.
360° light guidance ring made of optical polymer.
Anti-glare cone: corrosion-resistant

cast aluminium, No-Rinse surface treatment. double powder-coated and black lacquered.
Glare-free above the light aperture.
Mounting accessories to be ordered separately.
Protection mode IP65: dust-proof and water jet-proof.
Protection Class II
Housing temperature 53°C
Maximum wind load area 0.152m²
Weight 8.14kg
Version with 3000K CRI 97 or 2700K, 3500K, 4000K CRI 92 available on request.



Technical data

Luminous flux of the luminaire	609lm
Connected load	27.0W
Luminaire efficacy	23lm/W
Colour deviation	1.5 SDCM
Colour rendition index	CRI 92
Lumen maintenance (LED manufacturer specifications)	L90/B10 ≤50000h L90 ≤100000h
LED failure rate	0.1% ≤50000h
Dimming range	1%-100%
Dimming method	CCR
TLA (Temporal Light Artefacts)	SVM ≤ 0.4; PstLM ≤ 1
LMF	E
Standby power per control gear	0.1W
Luminaires per circuit breaker B16	23
Temperature on the light aperture	35°C



Casambi Bluetooth controllable via accessories
Casambi DALI gateway for controlling DALI via Casambi Bluetooth

Planning data

Melanopic light effect

Art. no.	Spectrum	MR	MDER
33933.000 (direct)	3000K CRI 92	0.53	0.48

MR	Melanopic factor (of luminous radiation) $a_{mel,v}$
MDER	Melanopic Daylight Efficacy Ratio $[\gamma]_{mel,v,D65}$

Multiplying the illuminance with the melanopic daylight efficacy ratio MDER gives the melanopic equivalent daylight illuminance MEDl. (MEDl Melanopic Equivalent Daylight Illuminance $[lx] E_{v, mel, D65} [lx]$).

Cleaning (a)	1				2				3			
Ambient conditions	P	C	N	D	P	C	N	D	P	C	N	D
LMF	0.96	0.94	0.90	0.86	0.93	0.91	0.86	0.81	0.92	0.90	0.84	0.79

Hours of operation (h)	1000	5000	10000	20000	30000	40000	50000
LLMF	1.00	0.99	0.98	0.96	0.94	0.92	0.90
LSF	1	1	1	1	1	1	1

MF	LMFxLLMFxLSF
MF	Maintenance Factor
LMF	Luminaire Maintenance Factor
LLMF	Lamp Lumens Maintenance Factor
LSF	Lamp Survival Factor
P	Room pure
C	Room clean
N	Room normal
D	Room dirty

Data according to regulations

2019/2020/EU supplemented by 2021/341/EU and 2019/2015/EU supplemented by 2021/340/EU Energy Consumption Labelling Ordinance

This product contains a light source of efficiency class E
Due to thermal and photometric properties as well as to protect electronic components from ESD (electrostatic discharge) the light source cannot be changed by the customer.

ID EPREL: 1784516
Model identifier: 3000068356
Download data sheets for control gear and disassembly instructions at www.ercos.com/slr

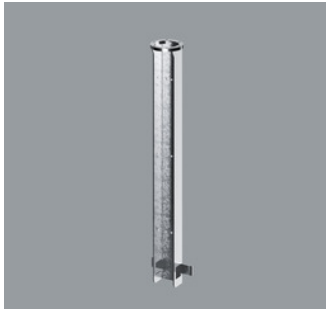
Technical data in accordance with international norms and standards

IEC 60598	Luminaires – Part 1+2: general requirements, specific requirements and tests
IEC 62031	LED modules for general lighting – safety requirements
IEC 62471	Photobiological safety of lamps and lamp systems
EN13032-4	Light and lighting – measurement and representation of photometric data
CIE 13	Method of measuring and specifying colour rendering properties of light sources

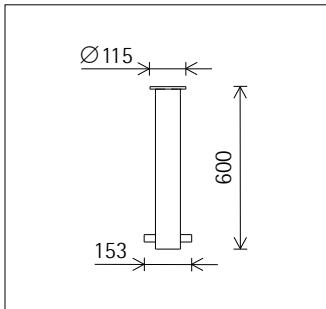
All technical data is subject to industry-standard tolerances.
Also see www.ercos.com/ercos-led

For explanations of the symbols and abbreviations used and other general information, see www.ercos.com/symbols

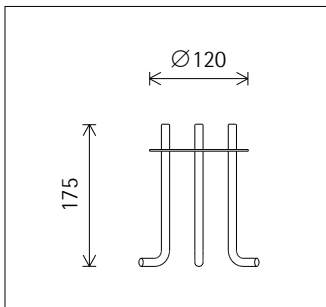
Accessories



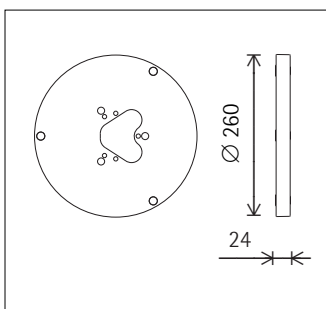
33974.000
Ground socket
Metal, hot-dip galvanised.
Weight 2.90kg



33981.000
Concrete anchor
Mounting plate with threaded bar and
fixing nuts M10. Individual parts to be
assembled on-site.
Weight 0.76kg

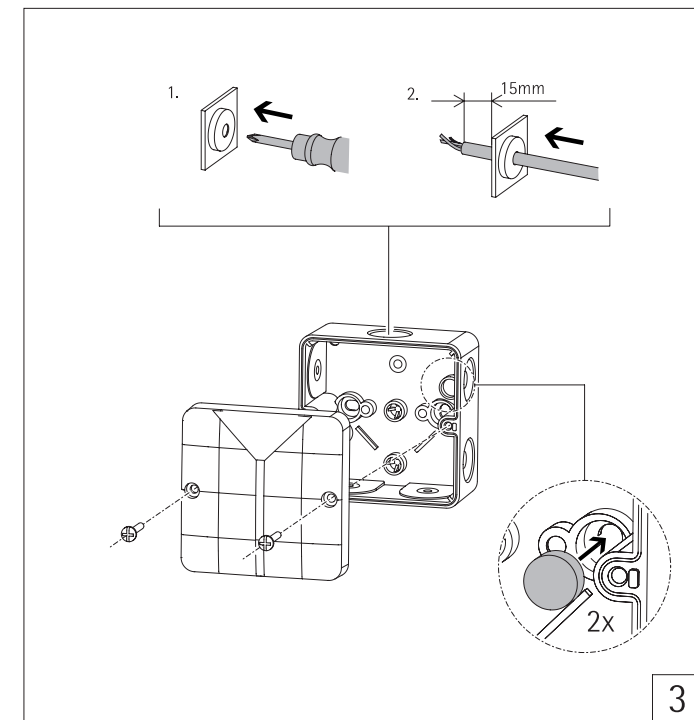
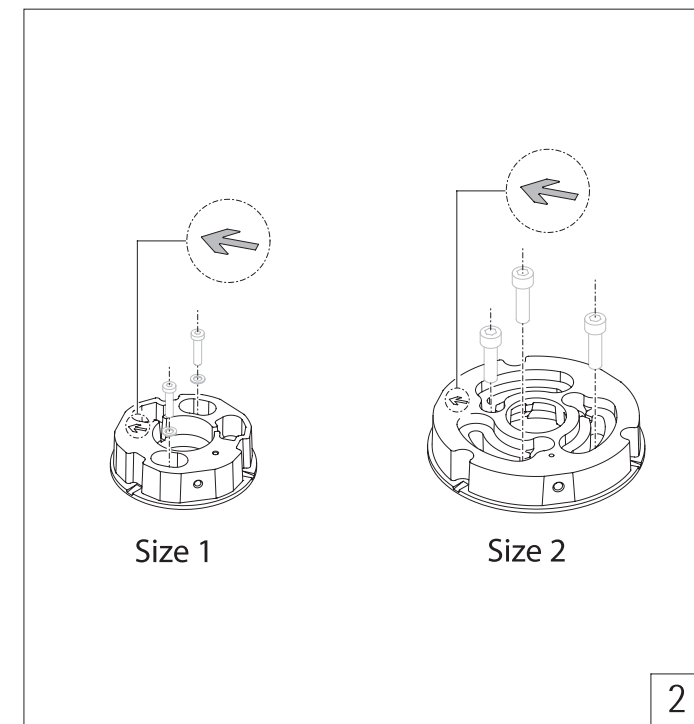
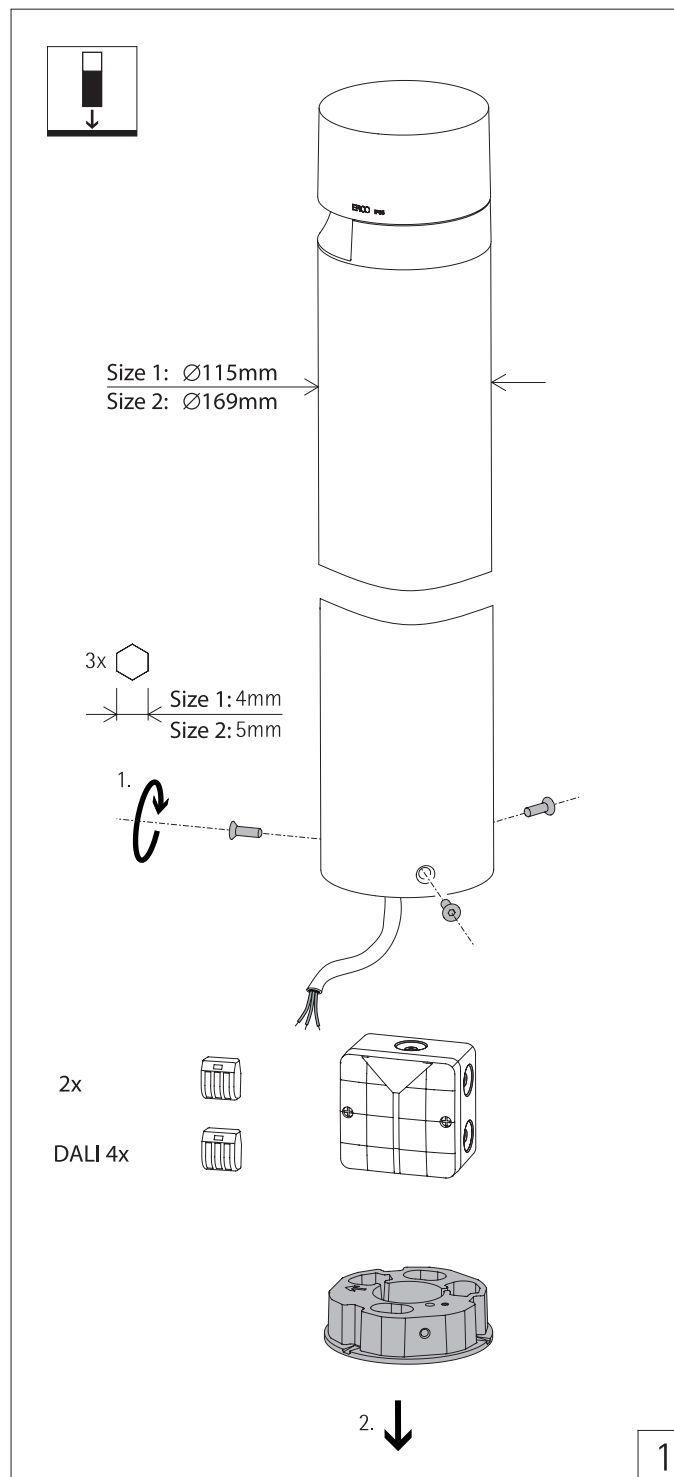


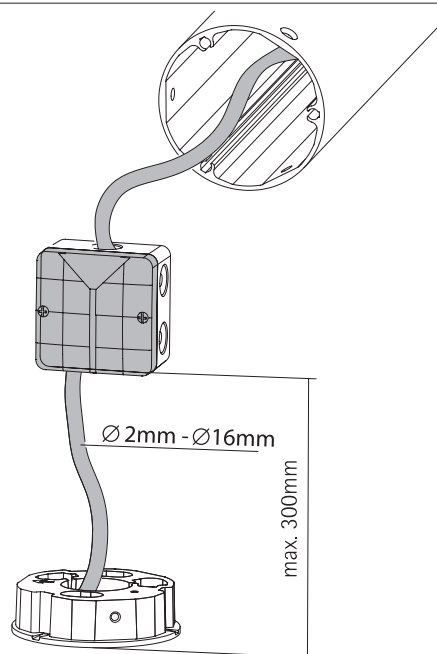
33982.000
Mounting plate
Corrosion-resistant cast aluminium,
No-Rinse surface treatment. Graphit m,
double powder-coated.
Weight 1.70kg



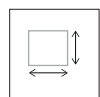
Castor Bollard luminaire

Mounting instructions





4



D (mm)

800 x ø115

900 x ø169

500 x ø115

500 x ø169



A (m²)

0.092

0.152

0.058

0.085



W (kg)

5.80

9.70

3.60

5.40

5

English



Read the instructions carefully before installation and commissioning!



Leave the instructions for users/customers for future reference!



Our updated product documentation can be accessed at www.erco.com/download.

Required accessories

Ø 115mm (size 1)

The bollard luminaire may be mounted on the ground socket 33975, the concrete anchor 33979 or the mounting plate 33982.

Ø 169mm (size 2)

The bollard luminaire may be mounted on the ground socket 33974, the concrete anchor 33981 or the mounting plate 33982.

General safety information



Warning!

Risk of electric shock!

- Before carrying out maintenance and installation on the luminaire, disconnect from the mains supply and also from any other DALI control wiring, and ensure that all power is switched off.

- Do not operate luminaires with damaged or missing protective covers. **Attention!**

- Do not open the luminaire head. In case of damage or a defective LED module, the entire luminaire must be returned to the factory.

- When installing, always observe the national installation and accident prevention regulations.

Intended use

- The luminaire is suitable for outdoor use.

- The luminaire is approved for vertical standing installation only.

- Dimensions (D), max. reference plane for wind loads (A) and weight (W) are detailed in Fig. 5.

Choosing the mounting location

Position the luminaire so as to avoid operation in direct sunlight or near other sources of heat. High ambient temperatures can reduce the life and efficiency of the control gear or LED module.

Notes on corrosion protection

Ensure that the powder coating is not damaged during installation or maintenance work. Any damage, which becomes wet, can result in corrosion occurring. In aggressive environments, the installation and maintenance of all parts will require the appropriate protective measures. Chemicals damage the corrosion protection.

Electrical installation

For 3-circuit installation: to avoid any damage to the control gear, the neutral conductor must never be connected or disconnected during operation.

Overvoltage protection

ERCO uses electronic control gear with overvoltage protection in accordance with DIN EN 61547. If additional protection from spikes is required, e.g. when switching off inductive loads, separate overvoltage protection units should be installed.

Luminaire with DALI control gear

- All cables, materials and devices used must be suitable for mains voltage, as the DALI signal is not transmitted using safety extra low voltage (SELV).

- For general information on DALI, please go to: www.digitalilluminationinterface.org.

Installation

Note for luminaire with 180° emission angle

The arrow on the base plate indicates the beam direction (Fig. 2).

Mounting on mounting plate

1. Place the mounting plate over the underground cable and secure to the concrete base.

Only use suitable material for mounting, e.g. stud bolts M8.

Attention! Always comply with the standards and regulations in place for the mounting location when selecting the mounting parts.

2. Undo the 3 Allen screws at the sides.

3. Remove base plate from the luminaire and place over the cable.

4. Screw the base plate onto the mounting plate using screws and washers (not included).

Mounting on ground socket or concrete anchor

1. Undo the 3 Allen screws at the sides.

2. Remove base plate from the luminaire and position over the cable.

3. Screw the base plate onto the ground socket or concrete anchor using the supplied mounting parts.

Note for concrete anchor: Follow the accessory instructions.

Electrical connection

Note: Suitable for through-wiring (looping through) up to 16A.

1. Open the junction box and press the supplied plugs into the openings (Fig. 3).

2. Insert cable and luminaire connection cable into the junction box.

3. Make the electrical connection using the supplied clamps.

Note on cable colours:

Switchable

Brown

Blue

Phase

Neutral conductor

DALI

Brown

Blue

Black

Grey

Phase

Neutral conductor

DALI

DALI

Final installation

Mount the luminaire in reverse order. Note: Ensure correct alignment of the luminaire with 180° emission angle.

Flashing of the LED module

It is normal for the LED module to flicker when switching on and off.

Cleaning

Always clean carefully using a soft cloth and a commercially available, pH-neutral, alcohol-free, non-abrasive cleaning agent.

Disposal

In accordance with EU Directive WEEE (Waste Electrical and Electronic Equipment), luminaires must not be disposed of with other household waste. At the end of their life, luminaires must be taken to the appropriate local facility available for the disposal or recycling of electronic products.

Effizienzklasse Lichtquelle
Efficiency class light source
Classe d'efficacité énergétique de la source lumineuse
Efficiëntieklasse lichtbron
Classe di efficienza della sorgente luminosa
Clase de eficiencia de la fuente de luz
Ljuskällans energiklass
Energiklasse lyskilde
Energieffektivitetsklasse for lyskilden

Deutsch

Dieses Produkt enthält eine Lichtquelle der Effizienzklasse E.
Aus wärmetechnischen und lichttechnischen Gründen sowie dem Schutz elektronischer Bauteile vor ESD (Electro Static Discharge) kann die Lichtquelle nicht vom Kunden gewechselt werden.

English

This product contains a light source of efficiency class E.
Due to thermal and photometric properties as well as to protect electronic components from ESD (electrostatic discharge) the light source cannot be changed by the customer.

Français

Ce produit comprend une source lumineuse de classe d'efficacité énergétique E.
Pour des raisons techniques liées à la chaleur et à l'éclairage, ainsi que pour protéger les composants électroniques contre la décharge électrostatique (DES), la source lumineuse ne peut pas être remplacée par le client.

Nederlands

Dit product bevat een lichtbron van efficiëntieklasse E.
Om warmtetechnische en lichttechnische redenen almede de bescherming van elektronische componenten tegen ESD (elektrostatische ontlading) kan de lichtbron niet door de klant worden gewisseld.

Italiano

Questo prodotto contiene una sorgente luminosa con classe di efficienza E.
Per ragioni tecniche di temperatura e illuminazione e la protezione dei componenti elettrici dall'ESD (Electro-Static Discharge), la sorgente luminosa non deve essere sostituita dal cliente.

Español

Este producto contiene una fuente de luz con clase de eficiencia E.
Por motivos térmicos y luminotécnicos, así como para proteger los componentes electrónicos contra descargas electrostáticas (ESD), no se permite al cliente cambiar la fuente de luz.

Svenska

Denna produkt innehåller en ljuskälla i energiklass E.
Av värme- och ljus tekniska skäl samt avseende skyddet av elektroniska komponenter mot elektrostatiska urladdningar (ESD) kan ljuskällan inte bytas av kunden.

Norsk

Dette produktet inneholder en lyskilde i energiklasse E.
Av varme- og lystekniske årsaker samt for å beskytte de elektroniske komponentene mot ESD (Electro Static Discharge), er det ikke mulig for kunden å skifte lyskilde.

Dansk

Dette produkt indeholder en lyskilde i energieffektivitetsklasse E.
Af varmetekniske og lystekniske samt for at beskytte de elektroniske komponenter mod ESD (electrostatic discharge/statiske udledninger) kan kunden ikke selv udskifte lyskilden.