



Licht . Kommunal . Digital

## UNIQUE DESIGN LONG TRADITION

In 2017, LKD took over the general representation of selected PLANET Lighting products for Austria, Germany, Switzerland and various other regions in Europe. As the world's leading manufacturer of LED Puck systems for handrails as well as medical and surgical luminaires, PLANET Lighting is an ideal partner to realise creative customised lighting ideas and concepts. The new LED Puck AIR series is characterised by technical innovation and outstanding lighting technology.

[WWW.LKD.AT](http://WWW.LKD.AT)



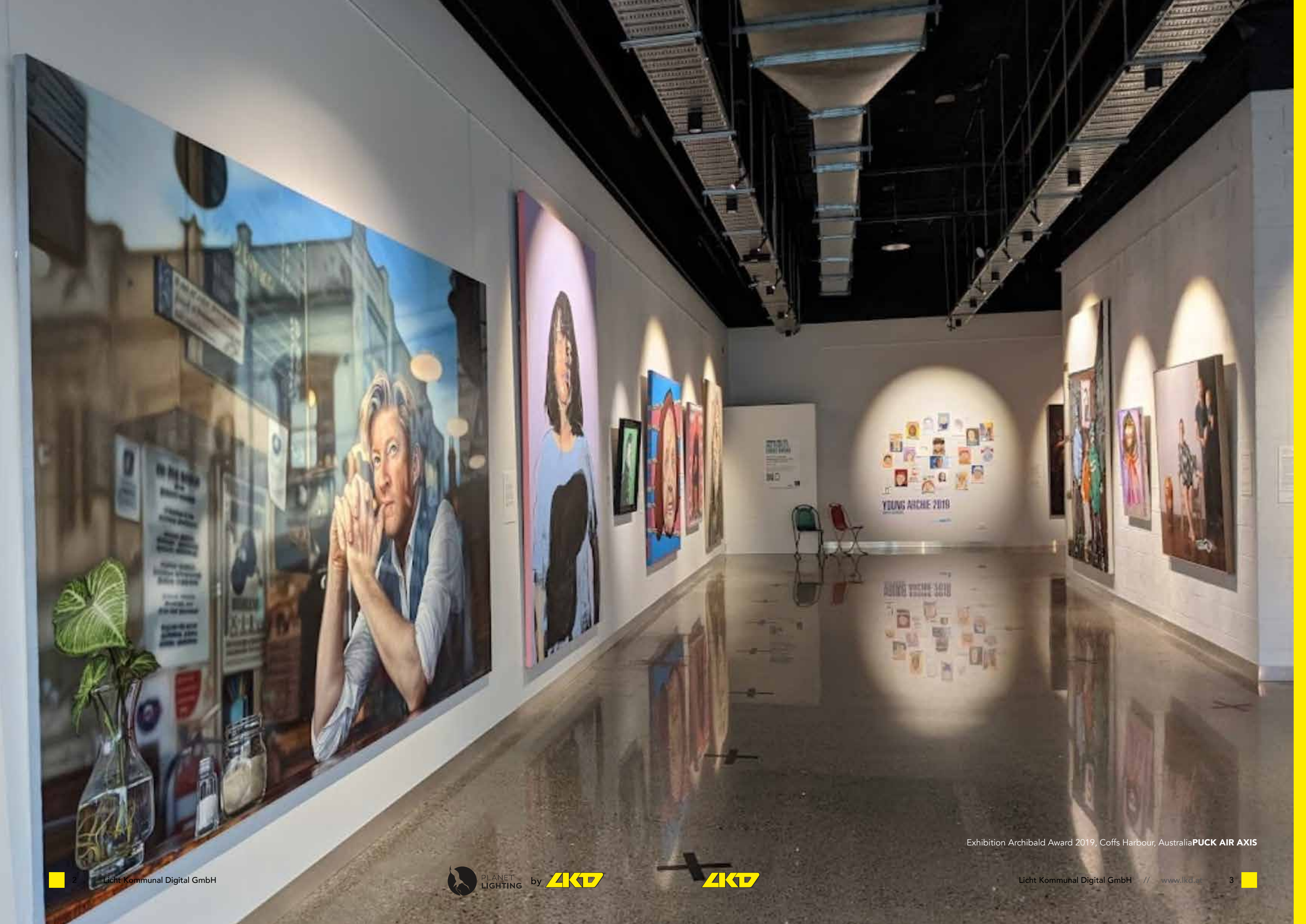
PLANET  
LIGHTING



PUCK **AIR**  
BRING IT TO THE NEXT LEVEL

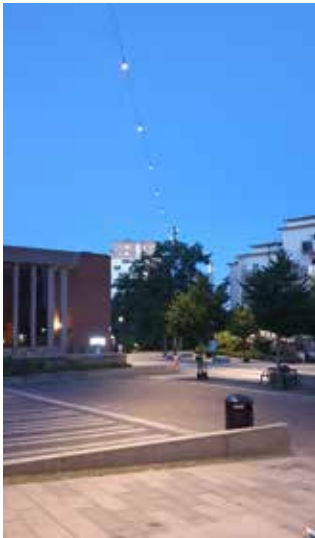






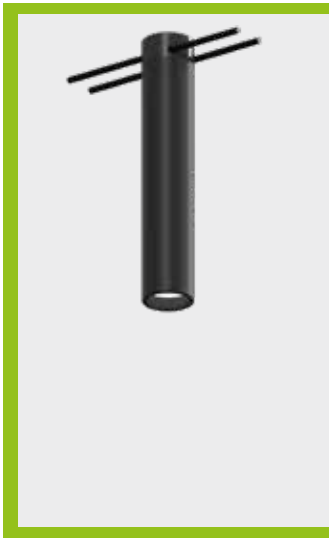
Exhibition Archibald Award 2019, Coffs Harbour, Australia **PUCK AIR AXIS**





PUCK AIR ..... page 6

- How it works



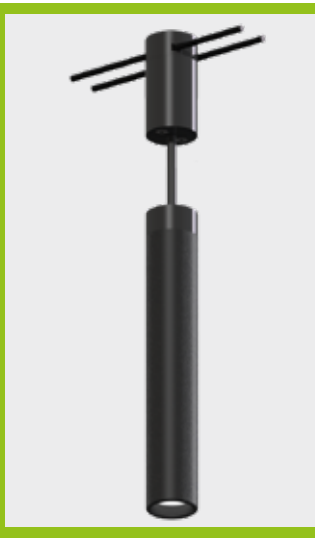
PUCK AIR STANDARD page 10

- LED Puck AIR luminaire with 10 different light distributions



PUCK AIR AXIS ..... page 10

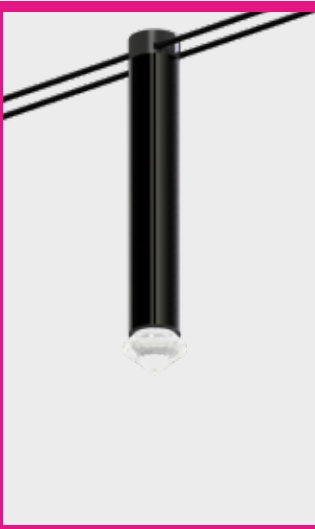
- LED Puck AIR luminaire with tilting and swiveling mechanism and 10 different light distributions



PUCK AIR PENDANT page 10

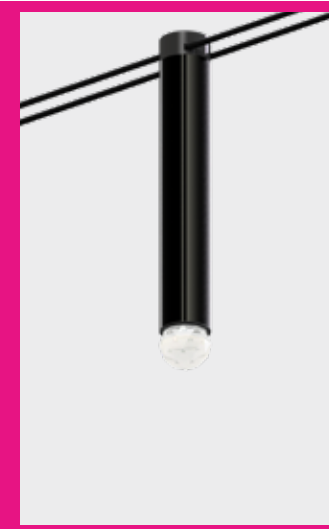
- LED Puck AIR pendant luminaire with 10 different light distributions

BRIGHT



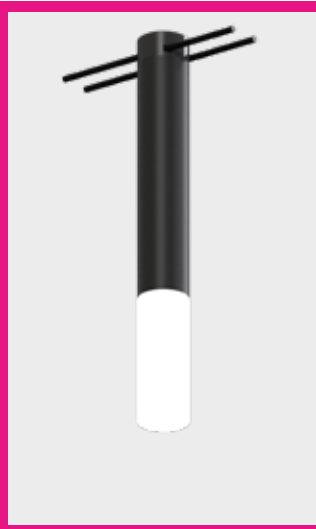
PUCK AIR DIAMOND page 14

- LED Puck AIR luminaire with diamond-shaped cover for special lighting effects



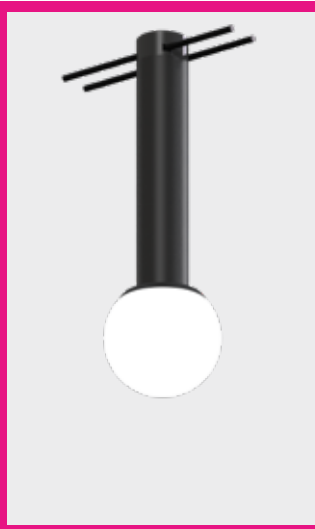
PUCK AIR PRISM ..... page 14

- LED Puck AIR luminaire with prismatic cover for special lighting effects



PUCK AIR WAND ... page 14

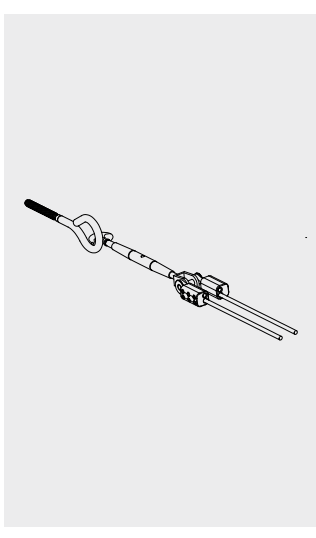
- LED Puck AIR luminaire in the appearance of a magic wand.



PUCK AIR GLOBE... page 14

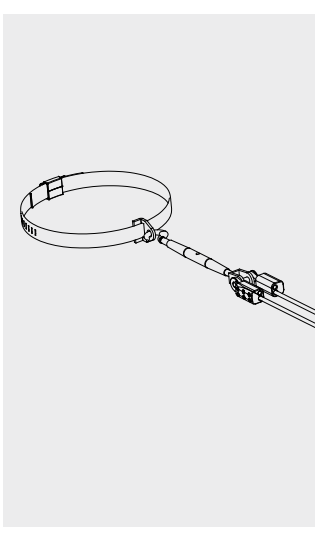
- LED Puck AIR luminaire in a classic spherical shape

DECORATIVE



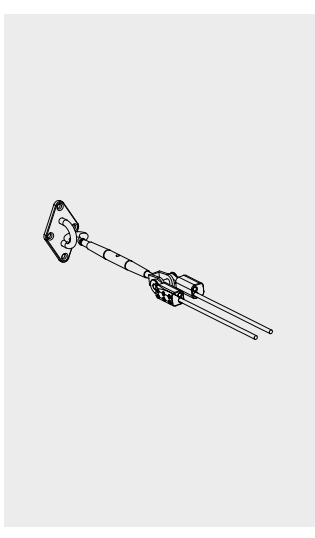
EYEBOLD MOUNT SET ..... page 16

- Fastening set for cable mounting on concrete, wood or metal
- Ring bolt with M6 thread



POLE and TREE MOUNT SET ..... page 16

- Fastening set for catenary mounting on poles or trees
- Ø 50 - 441mm



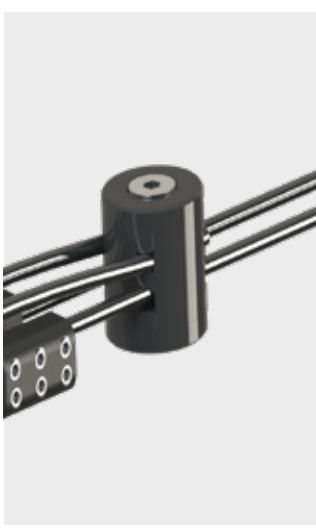
UNIVERSAL PLATE MOUNT SET ..... page 16

- Fastening set for catenary mounting with universal mounting plate for many surfaces



SINGLE CORE CABLE = power cable ..... page 16

- Tinned copper with Kevlar braid
- Power cable and suspension at the same time
- Ø 3mm



POWER HUB ..... page 17

- Power supply or to stabilize the catenary system



LED POWER SUPPLY ..... page 17

- 24V power supply in different wattages



LED DALI PWM CONVERTER ..... page 17

- DALI converter for dimmable light control via DALI or push-dim function



SPECIAL SOLUTIONS ..... page 17

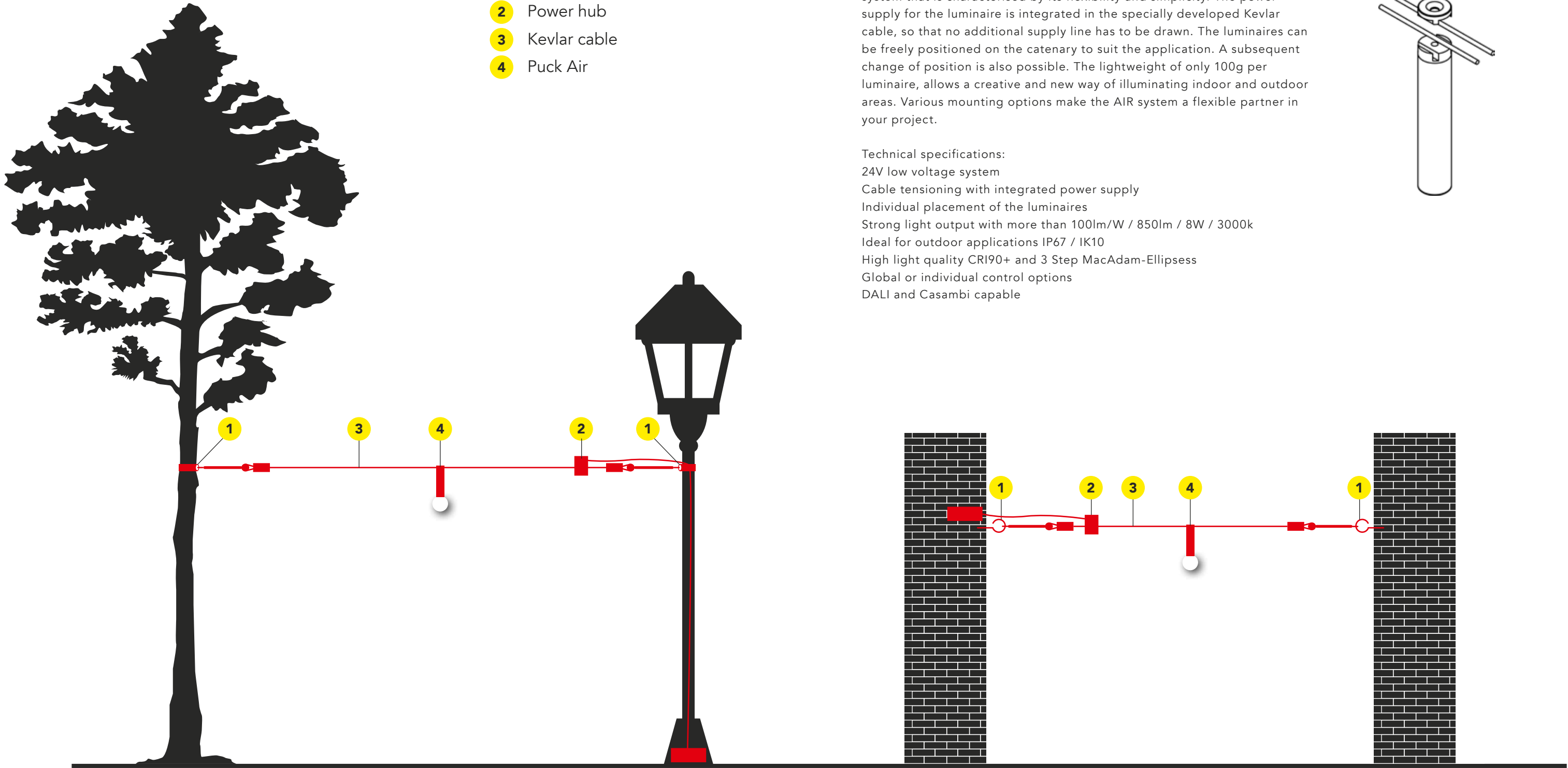
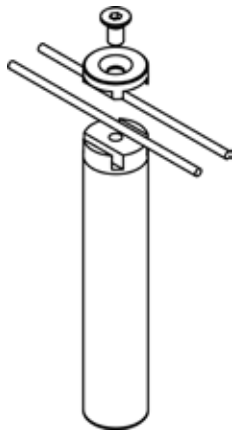
- Special colour options on request
- Customised attachment parts for decorative luminaires

- 1 Mounting set
- 2 Power hub
- 3 Kevlar cable
- 4 Puck Air

**PUCK AIR - A lightweight takes off**

Planet Lighting's LED Puck AIR series is an innovative 24V catenary lighting system that is characterised by its flexibility and simplicity. The power supply for the luminaire is integrated in the specially developed Kevlar cable, so that no additional supply line has to be drawn. The luminaires can be freely positioned on the catenary to suit the application. A subsequent change of position is also possible. The lightweight of only 100g per luminaire, allows a creative and new way of illuminating indoor and outdoor areas. Various mounting options make the AIR system a flexible partner in your project.

Technical specifications:  
24V low voltage system  
Cable tensioning with integrated power supply  
Individual placement of the luminaires  
Strong light output with more than 100lm/W / 850lm / 8W / 3000k  
Ideal for outdoor applications IP67 / IK10  
High light quality CRI90+ and 3 Step MacAdam-Ellipsess  
Global or individual control options  
DALI and Casambi capable



Note on assembly:  
The luminaires must not be touchable  
Max. cable length per cable strand: 50m  
Max. number of luminaires per cable strand: 20 pieces  
Operation of several cable strands on one control gear possible  
Various mounting options see page 16



PUCK **AIR**  
BRIGHT



**LED 8W**  
up to 850lm per Puck  
>100lm/W  
CRI 80+ (CRI 90+ on request)  
3 Step MacAdam-Ellipsess  
Protective cover made of  
polycarbonate IP67 / IK10

**INDOOR / OUTDOOR**  
MIN. - 40° / MAX. 55°  
24V VOLTAGE  
DALI / Casambi

## BRING THE PUCK UP IN THE **AIR**





PUCK AIR STANDARD / AXIS / PENDANT

BRIGHT



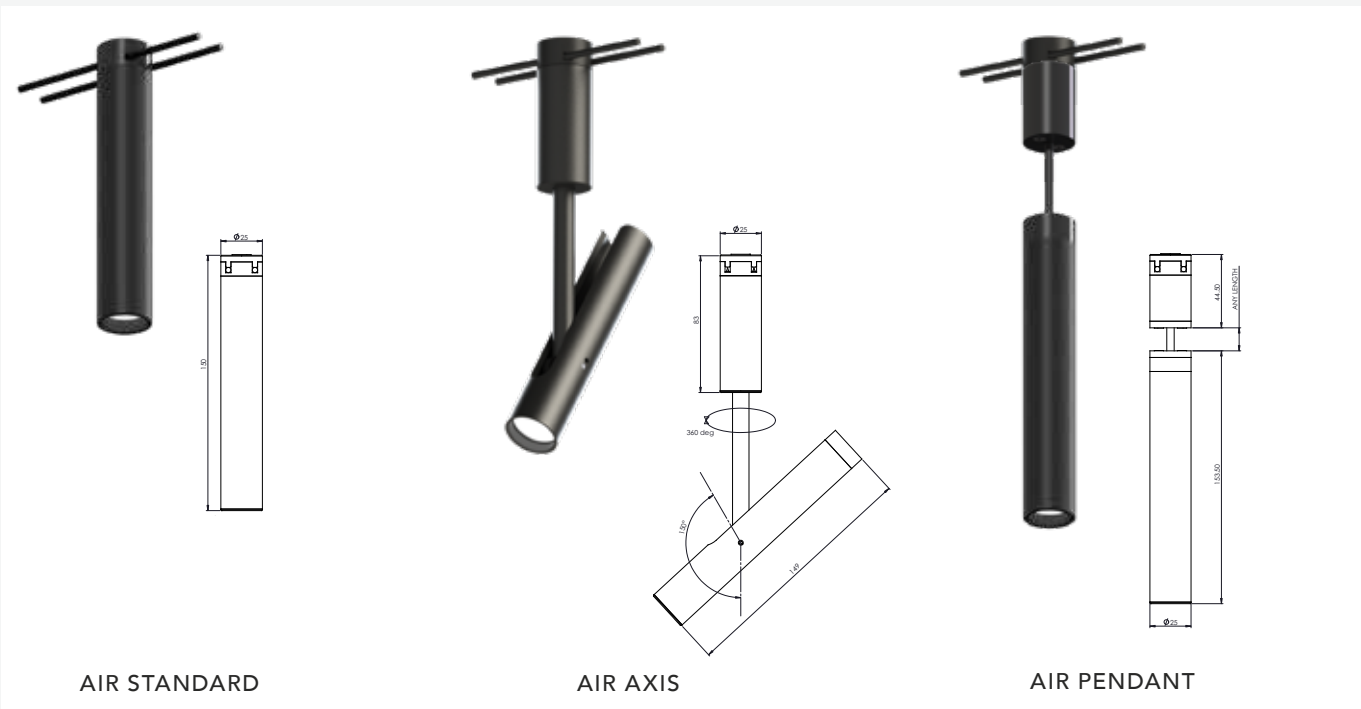
PUCK AIR AXIS - Exhibition Archibald Award 2019, Coffs Harbour, Australia

TECHNICAL SPECIFICATIONS

• Mounting	Double wire suspension (Ø 3mm)
• Housing	Marine grade aluminium, anodised, black matte
• Dimensions	Diameter 25mm / Height 150mm / 100 gram
• Rated capacity	8W
• Light output	850lm (3000K)
• LED	CREE-XEG-XHP35.2HI
• Light colours	2700K / 3000K / 4000K
• Colour rendering index	CRI 80+ (CRI 90+ on request)
• Chromaticity stability	3 Step MacAdam-Ellipses
• Lifetime	50.000h L80 B10
• Protection class	IP67 (polycarbonate)
• Impact resistant class	IK10 (EN62262)
• Electrics	24V voltage



AIR AXIS - By pressing the side lock, the luminaire body can be tilted by 150°.



PUCK AIR FOR CATENARY SYSTEM

	Luminaire shapes	Light distributions	Light colours
AIR-CAT-	ST = Standard	● SP = Spot - symmetrical super narrow beam	27 = 2700K
	AX = Axis	● LN = Narrow - symmetrical narrow beam	30 = 3000K
	PD = Pendant	● LM = Medium - symmetrical medium beam	40 = 4000K
		● LW = Wide - symmetrical wide beam	
		● LO = Oval - wide elliptical beam	
		■ LS = Square - ultra-wide square beam	
		■ LL = Line - ultra-wide line batwing	
		● ZO = Zoom - flexible focus beam from narrow to wide	
		● IR = Iris - beam limiter from narrow to wide	
		● SN = Snoot - symmetrical beam with limiter producing a narrow spot with zero side spill	

Order example  
AIR-CAT-ST-SP-27



ZOOM - Stepless adjustment of the light cone for individualised light distribution.



IRIS - Stepless adjustment of the light emission to individualise the light distribution.



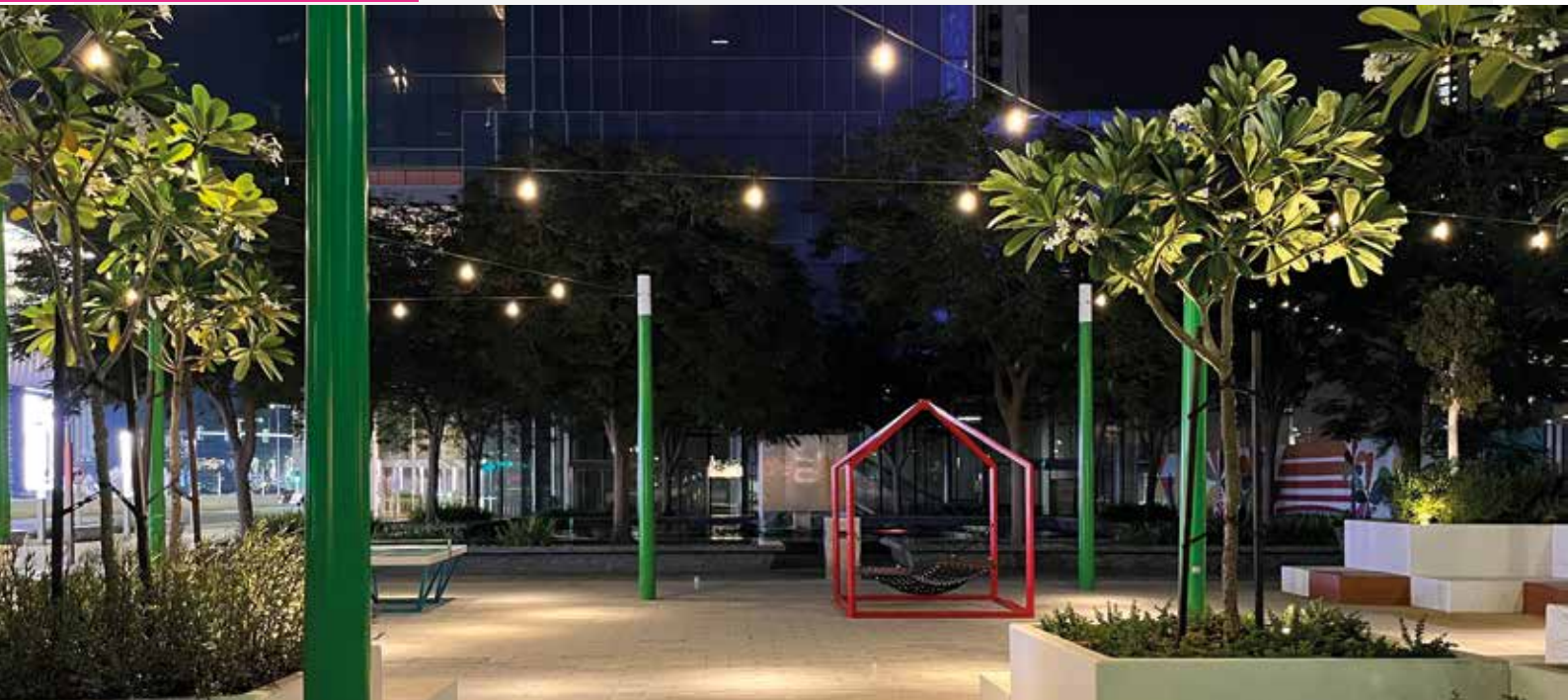
SNOOT - Limiter with black reflector for reduced glare.



SHINE BRIGHT LIKE A PUCK **AIR**

PUCK AIR STANDARD / AXIS / PENDANT WITH LITEOPTICS

DECORATIVE



PUCK AIR WAND - Al Maraya Island, Abu Dhabi

TECHNICAL SPECIFICATIONS

• Mounting	Double wire suspension (Ø 3mm)
• Housing	Marine grade aluminium, anodised, black matte
• Dimensions	Leuchtenkörper: Diameter 25mm / Height 150mm Diamond: Height 20mm Prism: Height 20mm Wand: Height 60mm Globe: Radius 27.5mm
• Rated capacity	8W
• Light output	850lm (3000K)
• LED	CREE-XEG-XHP35.2HI
• Light colours	2700K / 3000K / 4000K
• Colour rendering index	CRI 80+ (CRI 90+ on request)
• Chromaticity stability	3 Step MacAdam-Ellipses
• Lifetime	50.000h L80 B10
• Protection class	IP67 (polycarbonate)
• Impact resistant class	IK10 (EN62262)
• Electrics	24V voltage



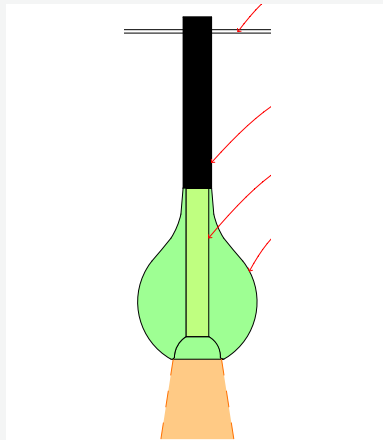
PUCK AIR FOR CATENARY SYSTEM

	Luminaire shapes	Liteoptics	Light colours
AIR-CAT-	ST = Standard	DI = Diamond - cut glass, star-shaped light effect with a bright center	27 = 2700K
	AX = Axis	PR = Prism - cut glass, soft kaleidoscope effect	30 = 3000K
	PD = Pendant	WA = Wand - modern festoon effect	40 = 4000K
		GC = Globe closed - closed globe made of polycarbonate	
		GO = Globe open - globe open at the bottom made of polycarbonate	
		GG = Globe glass - closed globe made of glass	

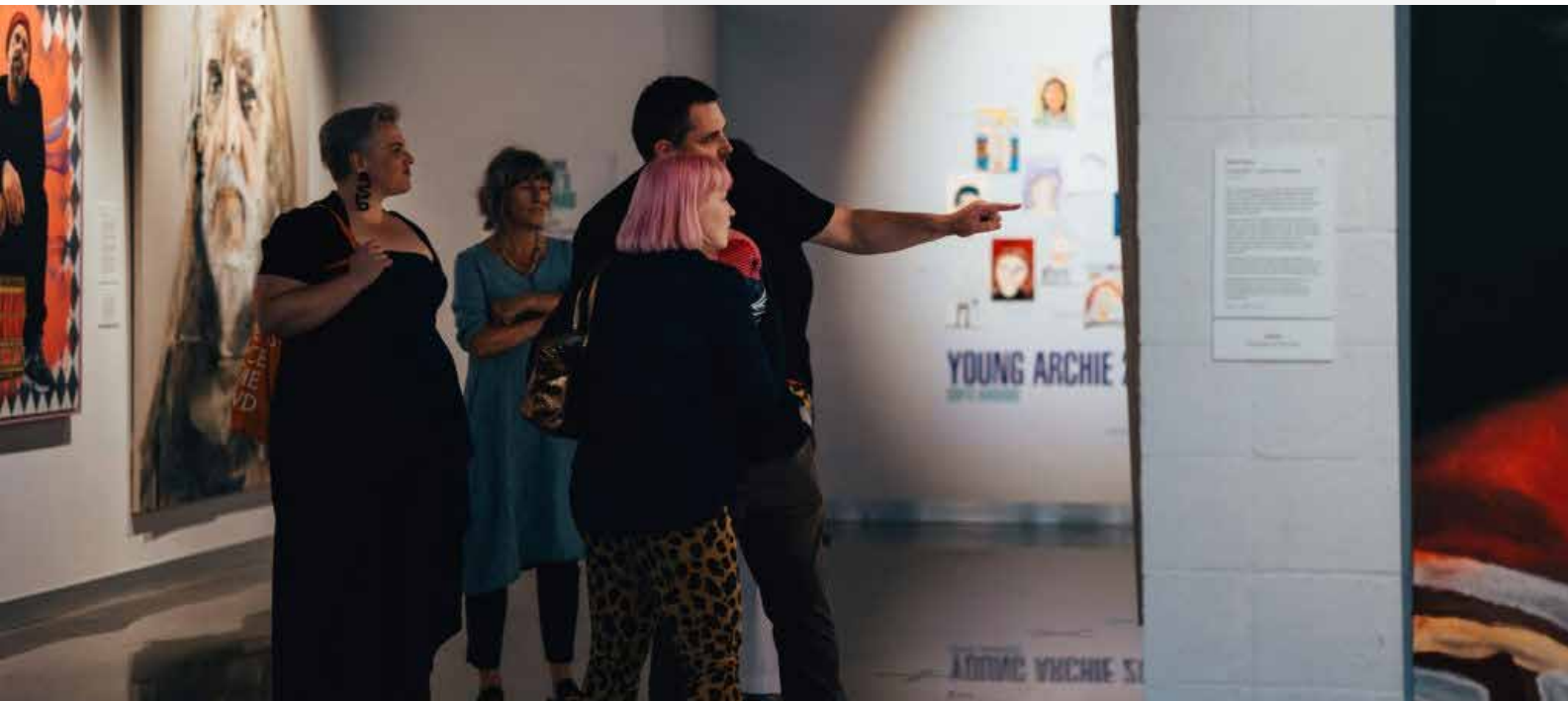
Order example  
AIR-CAT-ST-DI-27



GLOBE OPEN made of polycarbonate. Customised solutions possible on request, e.g. colored versions or special shapes



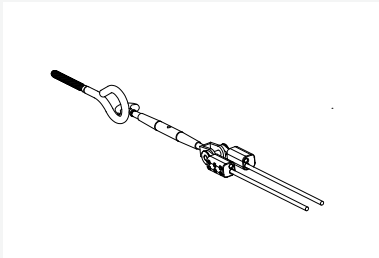




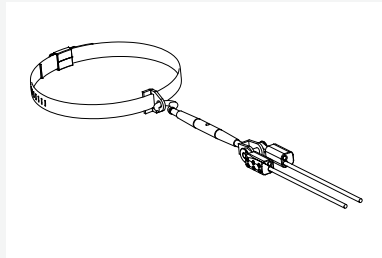
Exhibition Archibald Award 2019, Coffs Harbour, Australia

**MOUNTING SET FOR CATENARY SYSTEMS**

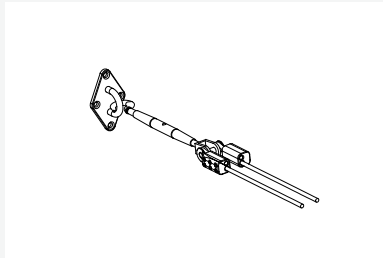
- POW/NON-TIM: Set for wood with 2 eyebolts, 2 turnbuckles and cable tensioner  
POW/NON-MAS: Set for masonry with 2 eyebolts, 2 turnbuckles and cable tensioner  
POW/NON-MET: Set for metal with 2 eyebolts, 2 turnbuckles and cable tensioner  
POW/NON-xxx: Set for poles and trees, 2 turnbuckles and cable tensioner (replace xxx with pole diameter in mm)  
POW/NON-PLA: Set for universal plate mount with 2 mounting plates, 2 turnbuckles and cable tensioner



Eyebolt mounting set



Poles and tree mounting set  
for diameters 50 - 441mm

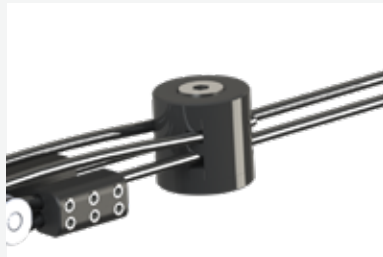


Universal mounting set



**KEVLAR CABLE - CATENARY AND POWER SUPPLY**

AIR-Cable:	Single core copper cable reinforced with Kevlar
Nominal voltage:	150V
Tensile stress:	100kg
Max. length:	50m
Colour:	Black



**POWER HUB**

For power supply or optionally to be used as a reinforcement of the catenary system



**LED POWER SUPPLY WITH METAL HOUSING, ENEC CERTIFIED**

Voltage:	24V
Output current:	100W (length 220mm / width 68mm / height 38.8mm) 120W (length 220mm / width 68mm / height 39mm) 240W (length 244.2mm / width 68mm / height 38.8mm) 480W (length 262mm / width 125mm / height 43.8mm)
Type of protection:	IP65
Protection class:	II
Lifetime:	62,000h
Guarantee:	7 years

The maximum distance between the power supply and the catenary depends on the used size of the cable and the voltage of power supply.

- Examples:  
0.75 mm<sup>2</sup> cable and 24VDC max. 25m  
1.5mm<sup>2</sup> cable and 24VDC max 50m  
1.5mm<sup>2</sup> cable and 30VDC max 100m



**LED DALI PWM CONVERTER**

DALI addresses:	4 programmable channels
Dimming range:	1-100%
Power consumption:	<0.5W
Type of protection:	IP20
Guarantee:	3 years
Dimensions:	165x46x93mm



**SPECIAL SOLUTIONS**

Individual special solutions on request, e.g. special colour options or customised attachment parts for decorative luminaires.

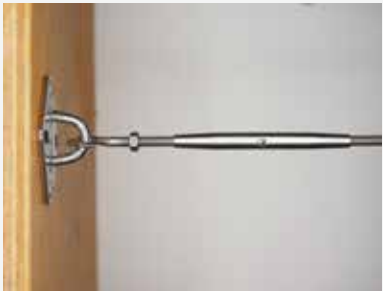




PUCK AIR **INSTALLATION**



Attach the mounting plates to both ends.



Hook in the turnbuckles to each mounting device and make sure that the cable turnbuckles are fully extended.



Pull the cable through the fixing block until it is tight and even in tension.



Slide the blocks up to the turnbuckle.



Hand tighten grub screws on each fixing block to secure the cabling.



Tension the cable by tightening the turnbuckles at both ends and securing with the locknuts. Hand tighten ONLY!



Align slots in luminaire head.



Attach the cap.



Screw on the cap to secure the connection.



Lead the cable to the power supply.





**PUCK AIR** OFFERS A WIDE RANGE OF POSSIBLE APPLICATIONS. WE GIVE YOU INDIVIDUAL ADVICE.





Exhibition Archibald Award 2019, Coffs Harbour, Australia

**PUCK AIR AXIS**



## THE FOCUS OUR SERVICES

### CONCEPTION



LKD can look back on almost 50 years of experience in the Austrian market.

Even in the basic conception of a lighting concept, important milestones have to be set in order to get the right light in the end. From the determination of requirements to the plan vision up to the 3D concept for your object, our LKD technicians can give you the best advice.

### PLANNING



A professional planning in accordance with the currently valid standards for lighting is the basis of every project. Our certified lighting technicians guarantee state-of-the-art planning.

Together with the parent company Sapotec, we can also carry out tenders according to ÖNORM.

### DELIVERY



We have a close partnership with Planet Lighting, which benefits you as a customer.

Short on-time deliveries are very important to us.

### MAINTENANCE



In order to maintain the proper condition of an emergency lighting system for the entire lifetime, OVE E 8101 in Austria prescribes the annual maintenance of the systems by qualified personnel.

A team of specially trained emergency technicians is available 365 days, 24 hours a day. We offer maintenance for all well-known manufacturers!

## ADVANTAGES OF A LIGHTING CONCEPT

### COST REDUCTION



Reduce your energy costs through efficient solutions.

### PRODUKTIVITÄT PLUS



The right light does not tire you and makes you more productive.

### RELIABILITY



High security through high reliability.

### ENVIRONMENTAL PROTECTION



Save valuable resources with our environmentally friendly solutions.



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