DesignLight

PLANET
LIGHTING

PUCK - SNAP THE LIGHT
LIGHT FOR HANDRAILS

Design**Light**

TEFLON CABLE

STAINLESS STEEL 316

LED TECHNOLOGY
CREE XP-G3
>128LM/W
3 SDCM
UP TO CRI 90+

GLASS VERSIONS
POLYCARBONATE, IP65, IK10
OR BOROSILICATE, IP67

„ONE" HOUSING FOR ALL WALL THICKNESSES FROM 1.5MM

NO THREAD AND NO COUNTERSINK REQUIRED FOR MOUNTING

QUICK PREPARATION OF THE HANDRAIL FOR ASSEMBLY

OPTIMUM ALIGNMENT OF THE PUCK POSSIBLE EVEN AFTER INSTALLATION

ALWAYS PERFECTLY FLUSH TO HANDRAIL MOUNTING OF THE PUCK

REDUCED RISK OF CABLE BREAKAGE BY „SNAPPING" THE PUCK INTO THE MATERIAL

NO USE OF INTERNAL SPRINGS OR LOCTITE, THUS IMPROVED DISMANTLING POSSIBILITIES

THEFT-PROOF BY USING A SPECIAL DISASSEMBLY TOOL

Design**Light**

LED PUCK STANDARD LIGHT DISTRIBUTION

TECHNICAL SPECIFICATIONS

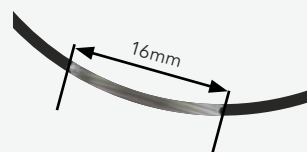|		
•	Installation	in round (CF) or flat (FF) surfaces
•	Housing	Stainless steel 316
•	Dimensions	Diameter 16mm - Height 15mm / 26mm
•	Rated capacity	1,4W / 500mA / 2,8Vf
•	Light output	170lm (3000k) / 180lm (4000k)
•	LED	CREE-XPG-3 with SC5 technolgy
•	Light colours	3000K / 4000K (2700K / 3500K on request)
•	Colour rendering index	CRI 80+ (CRI 90+ on request)
•	Chromaticity stability	3 Step MacAdams Ellipses
•	Lifetime	50.000h L80 B10
•	Protection class	IP65 (Polycarbonate) or IP67 (Borosilicate)
•	Impact resistant class	IK10 (EN62262) at IP65
•	Material thickness handrail	at least 1.5mm Diameter
•	Diameter handrail	at least 35mm round, at least 25mm square
•	Theft protection	Disassembly only possible with special tool

SERIES WIRING

Max. 20 pucks per driver (SELV) are allowed.
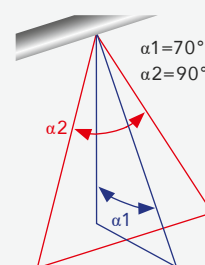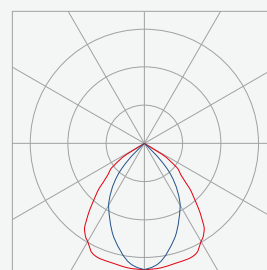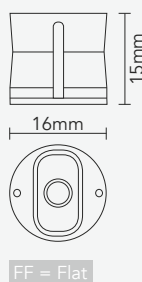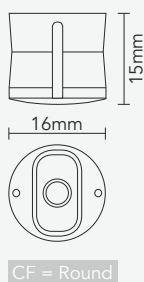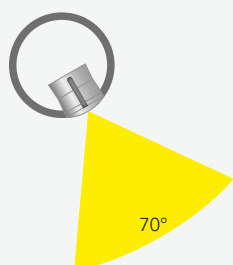
INSTALLATION DETAIL

Material thickness: **> 1.5mm**

The SNAP puck can be used from a material thickness of 1.5mm without counterbore and thread.
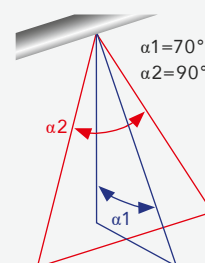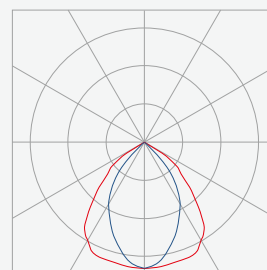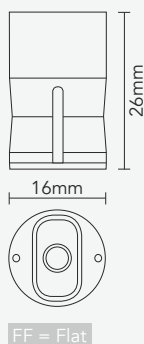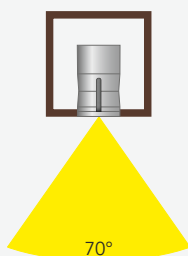
16mm

LED PUCK HLS-ST-SNP FOR INSTALLATION IN METAL

	Beam angle	Mounting technique	Version	Light colour	Glass
HLS	ST	SNP	CF	WW	-
	ST = Standard	SNP = SNAP mounting	CF = Round FF = Flat	IW = 2700K WW = 3000K MW = 3500K NW = 4000K	not specified = Polycarbonate (standard) B = Borosilicate

70°

15mm   16mm   CF = Round

15mm   16mm   FF = Flat

α1=70°
α2=90°

LED PUCK HLS-ST-SOLO FOR INSTALLATION IN WOOD, PLASTER AND MASONRY

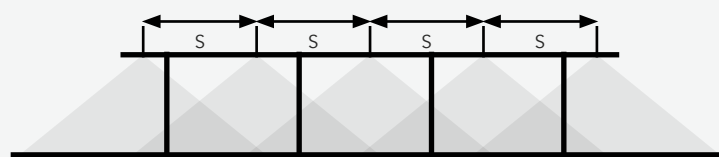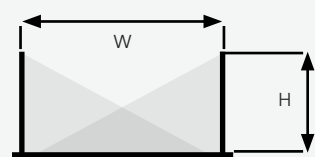|	Beam angle	Mounting technique	Version	Light colour	Glass
HLS	ST	SOLO	FF	WW	-
	ST = Standard	SOLO = SNAP mounting	FF = Flat	IW = 2700K WW = 3000K MW = 3500K NW = 4000K	not specified = Polycarbonate (standard) B = Borosilicate

70°

26mm   16mm   FF = Flat

α1=70°
α2=90°

PLANNING EXAMPLE

W   H   S   S   S   S

W = Path Width
H = Mounting height handrail 1m
S = LED Spacing between Pucks

Light from both sides

Path Width (W)	1.2 m	2.0 m	3.0 m	4.0 m
LED Spacing (S)	lx	lx	lx	lx
0.5 m	342	205	137	103
1.0 m	171	103	68	51
2.0 m	86	51	34	26

lx = average lux, light colour = 3000K

Design**Light**

LED PUCK VERTICAL ASYMMETRICAL LIGHT DISTRIBUTION

TECHNICAL SPECIFICATIONS

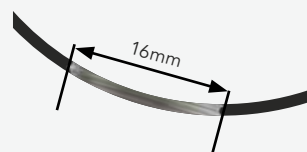|		
•	Installation	in round (CF) or flat (FF) surfaces
•	Housing	Stainless steel 316
•	Dimensions	Diameter 16mm - Height 15mm / 26mm
•	Rated capacity	1,4W / 500mA / 2,8Vf
•	Light output	165lm (3000K) / 175lm (4000K)
•	LED	CREE-XPG-3 with SC5 technolgy
•	Light colours	3000K / 4000K (2700K / 3500K on request)
•	Colour rendering index	CRI 80+ (CRI 90+ on request)
•	Chromaticity stability	3 Step MacAdams Ellipses
•	Lifetime	50.000h L80 B10 / 100.000h L70 B50 (SOLO)
•	Protection class	IP65 (Polycarbonate) or IP67 (Borosilicate)
•	Impact resistant class	IK10 (EN62262) at IP65
•	Material thickness handrail	at least 1.5mm Diameter
•	Diameter handrail	at least 35mm round, at least 25mm square
•	Theft protection	Disassembly only possible with special tool

SERIES WIRING

Max. 20 pucks per driver (SELV) are allowed.
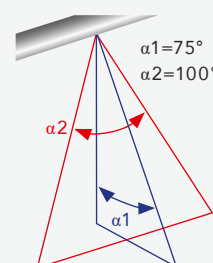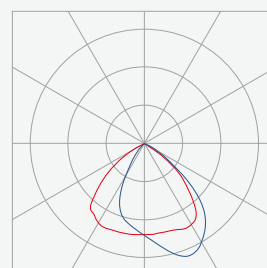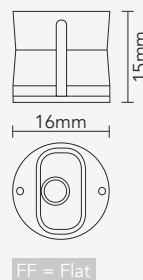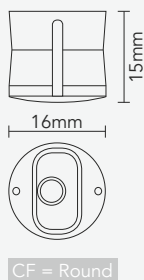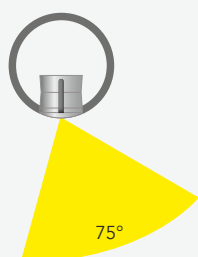
INSTALLATION DETAIL

Material thickness: > **1.5mm**

The SNAP puck can be used from a material thickness of 1.5mm without counterbore and thread.
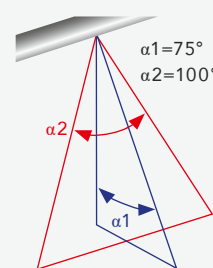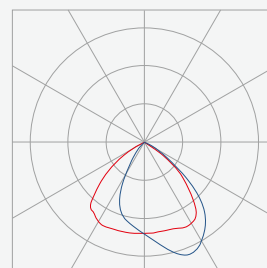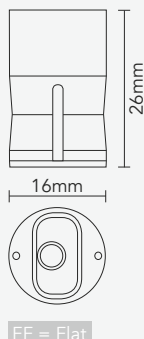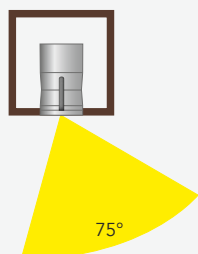
16mm

LED PUCK HLS-VA-SNP FOR INSTALLATION IN METAL

	Beam angle	Mounting technique	Version	Light colour	Glass
HLS	VA	SNP	CF	WW	-
	VA = Vertical asymmetrical	SNP = SNAP mounting	CF = Round FF = Flat	IW = 2700K WW = 3000K MW = 3500K NW = 4000K	not specified = Polycarbonate (standard) B = Borosilicate

75°

15mm
16mm
CF = Round

15mm
16mm
FF = Flat

α1=75°
α2=100°

LED PUCK HLS-VA-SOLO FOR INSTALLATION IN WOOD, PLASTER AND MASONRY

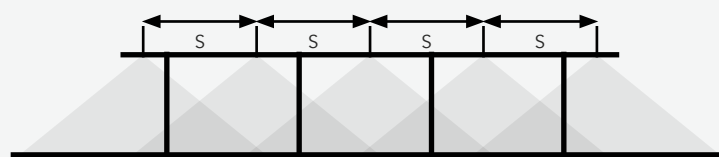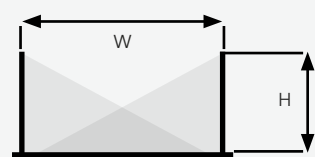|	Beam angle	Mounting technique	Version	Light colour	Glass
HLS	VA	SOLO	FF	WW	-
	VA = Vertical asymmetrically	SOLO = SNAP mounting	FF = Flat	IW = 2700K WW = 3000K MW = 3500K NW = 4000K	not specified = Polycarbonate (standard) B = Borosilicate

75°

26mm
16mm
FF = Flat

α1=75°
α2=100°

PLANNING EXAMPLE

W

H

S   S   S   S

W = Path Width
H = Mounting height handrail 1m
S = LED Spacing between Pucks

Light from both sides

Path Width (W)	1.2 m	2.0 m	3.0 m	4.0 m
LED Spacing (S)	lx	lx	lx	lx
0.5 m	291	174	116	87
1.0 m	145	87	58	44
2.0 m	73	44	29	22

lx = average lux, light colour = 3000K

Design**Light**

LED PUCK WIDE SYMMETRICAL LIGHT DISTRIBUTION

TECHNICAL SPECIFICATIONS

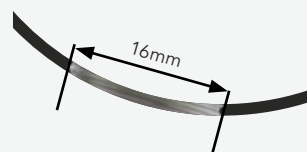|		
•	Installation	in round (CF) or flat (FF) surfaces
•	Housing	Stainless steel 316
•	Dimensions	Diameter 16mm - Height 15mm
•	Rated capacity	1,4W / 500mA / 2,8Vf
•	Light output	172lm (3000k) / 182lm (4000k)
•	LED	CREE-XPG-3 with SC5 technolgy
•	Light colours	3000K / 4000K (2700K / 3500K on request)
•	Colour rendering index	CRI 80+ (CRI 90+ on request)
•	Chromaticity stability	3 Step MacAdams Ellipses
•	Lifetime	50,000h L80 B10
•	Protection class	IP65 (Polycarbonate) or IP67 (Borosilicate)
•	Impact resistant class	IK10 (EN62262) at IP65
•	Material thickness handrail	at least 1.5mm Diameter
•	Diameter handrail	at least 35mm round, at least 25mm square
•	Theft protection	Disassembly only possible with special tool

SERIES WIRING

Max. 20 pucks per driver (SELV) are allowed.
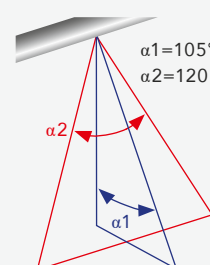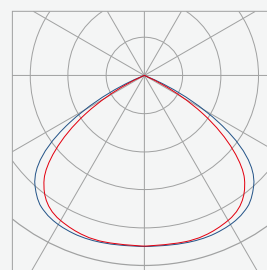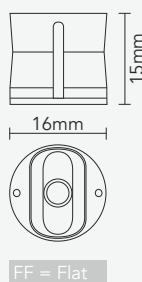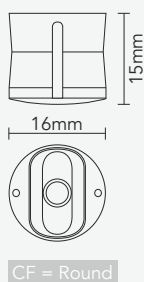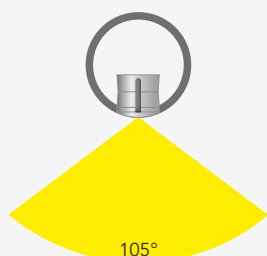

INSTALLATION DETAIL

Material thickness: > **1.5mm**

The SNAP puck can be used from a material thickness of
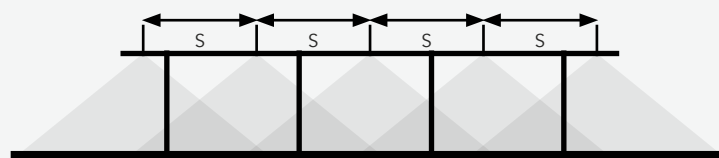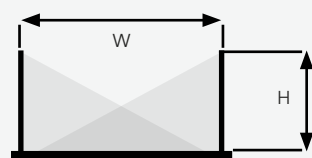1.5mm without counterbore and thread.

16mm

LED PUCK HLS-WIDE-SNP FOR INSTALLATION IN METAL

	Beam angle	Mounting technique	Version	Light colour	Glass
HLS	WIDE	SNP	CF	WW	-
	Wide	SNP = SNAP mounting	CF = Round FF = Flat	IW = 2700K WW = 3000K MW = 3500K NW = 4000K	not specified = Polycarbonate (standard) B = Borosilicate

105°

15mm
16mm
CF = Round

15mm
16mm
FF = Flat

$\alpha 1 = 105°$
$\alpha 2 = 120°$
$\alpha 2$
$\alpha 1$

PLANNING EXAMPLE

W

H

S   S   S   S

W = Path Width
H = Mounting height handrail 1m
S = LED Spacing between Pucks

Light from both sides

Path Width (W)	1.2 m	2.0 m	3.0 m	4.0 m
LED Spacing (S)	lx	lx	lx	lx
0.5 m	222	133	89	67
1.0 m	111	67	44	33
2.0 m	56	33	22	17

lx = average lux, light colour = 3000K

DesignLight

LED PUCK ZERO ASYMMETRICAL LIGHT DISTRIBUTION

TECHNICAL SPECIFICATIONS

•	Installation	in round (CF) or flat (FF) surfaces
•	Housing	Stainless steel 316
•	Dimensions	Diameter 16mm - Height 15mm
•	Rated capacity	1,4W / 500mA / 2,8Vf
•	Light output	92lm (3000K) / 101lm (4000K)
•	LED	CREE-XPG-3 with SC5 technolgy
•	Light colours	3000K / 4000K (2700K / 3500K on request)
•	Colour rendering index	CRI 80+ (CRI 90+ on request)
•	Chromaticity stability	3 Step MacAdams Ellipses
•	Lifetime	50.000h L80 B10
•	Protection class	IP65 (Polycarbonate) or IP67 (Borosilicate)
•	Impact resistant class	IK10 (EN62262) at IP65
•	Material thickness handrail	at least 1.5mm Diameter
•	Diameter handrail	at least 35mm round, at least 25mm square
•	Theft protection	Disassembly only possible with special tool

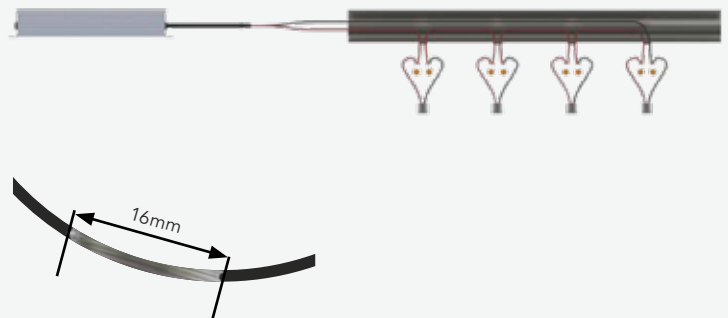Black 2.0 by Stuart Semple coated reflector for reduced glare

SERIES WIRING

Max. 20 pucks per driver (SELV) are allowed.
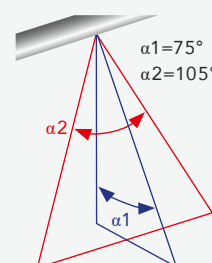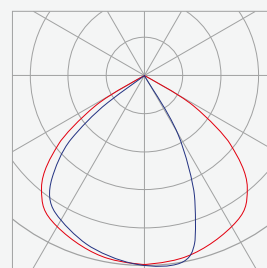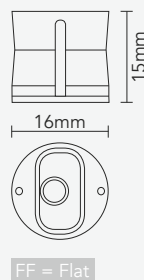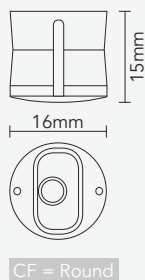
INSTALLATION DETAIL

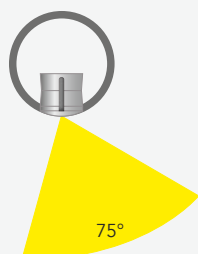Material thickness: > 1.5mm

The SNAP puck can be used from a material thickness of 1.5mm without counterbore and thread.

16mm

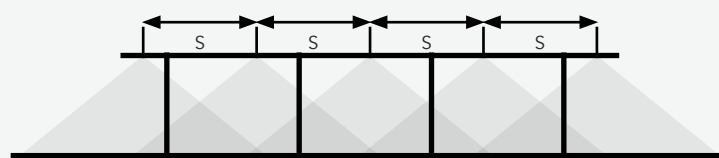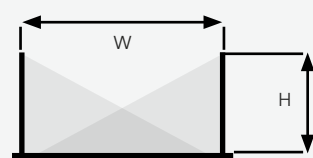|	Beam angle	Mounting technique	Version	Light colour	Glass
HLS	ZERO	SNP	CF	WW	-
	ZERO = Asymmetrical	SNP = SNAP mounting	CF = Round FF = Flat	IW = 2700K WW = 3000K MW = 3500K NW = 4000K	not specified = Polycarbonate (standard) B = Borosilicate

75°

15mm

16mm

CF = Round

15mm

16mm

FF = Flat

α1=75°
α2=105°

α2

α1

PLANNING EXAMPLE

W

H

S S S S

W = Path Width
H = Mounting height handrail 1m
S = LED Spacing between Pucks

Light from both sides

Path Width (W)	1.2 m	2.0 m	3.0 m	4.0 m
LED Spacing (S)	lx	lx	lx	lx
0.5 m	164	98	66	49
1.0 m	82	49	33	25
2.0 m	41	25	16	12

lx = average lux, light colour = 3000K

Design**Light**

LED PUCK RGBW SYMMETRICAL LIGHT DISTRIBUTION

TECHNICAL SPECIFICATIONS

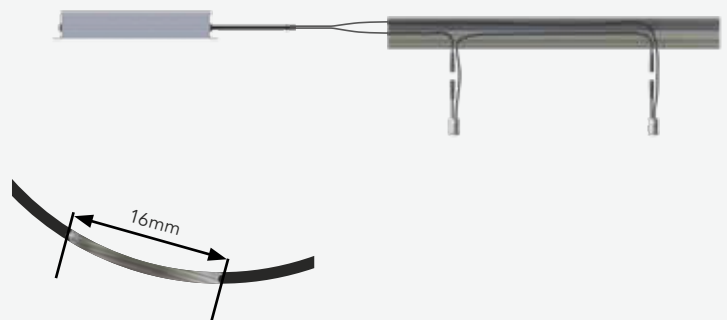|		
•	Installation	in round (CF) or flat (FF) surfaces
•	Housing	Stainless steel 316
•	Dimensions	Diameter 16mm - Height 26mm
•	Rated capacity	1,4W / 500mA / 2,8Vf
•	Light output	180lm (4000K)
•	LED	CREE-XPG-3 with SC5 technolgy
•	Light colours	Red, green, blue, white 4000K (single LEDs)
•	Colour rendering index	CRI 80+ (CRI 90+ on request)
•	Chromaticity stability	3 Step MacAdams Ellipses
•	Lifetime	50.000h L80 B10
•	Protection class	IP65 (Polycarbonate) or IP67 (Borosilicate)
•	Impact resistant class	IK10 (EN62262) at IP65
•	Material thickness handrail	at least 1.5mm Diameter
•	Diameter handrail	at least 35mm round, at least 25mm square
•	Theft protection	Disassembly only possible with special tool

SERIES WIRING

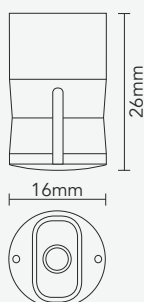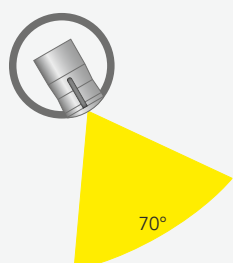Max. 14 pucks per driver (SELV) are allowed.

INSTALLATION DETAIL

Material thickness: > **1.5mm**

The SNAP puck can be used from a material thickness of
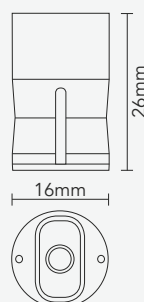1.5mm without counterbore and thread.

16mm

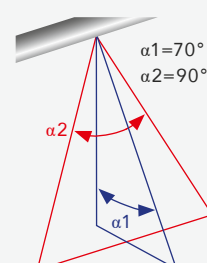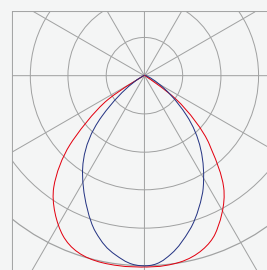## LED PUCK HLS-RGBW-SNP FOR INSTALLATION IN METAL, WOOD, PLASTER AND MASONRY

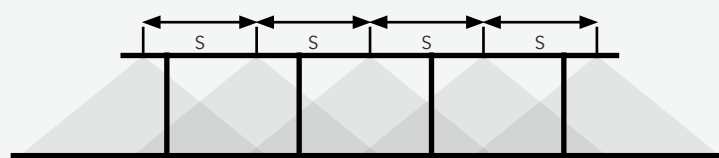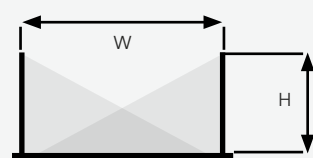|	Beam angle	Mounting technique	Version	Light colour	Glass
HLS	RGBW	SNP	CF	NW	-
	RGBW = Symmetrical	SNP = SNAP mounting	CF = Round FF = Flat	NW = 4000K white LED	not specified = Polycarbonate (standard) B = Borosilicate

70°

26mm 16mm

CF = Round

26mm 16mm

FF = Flat

α1=70°
α2=90°

α2 α1

PLANNING EXAMPLE

W

H

S   S   S   S

W = Path Width
H = Mounting height
handrail 1m
S = LED Spacing between
Pucks

Light from both sides

Path Width (W)	1.2 m	2.0 m	3.0 m	4.0 m
LED Spacing (S)	lx	lx	lx	lx
0.5 m	380	228	152	114
1.0 m	190	114	76	57
2.0 m	95	57	38	28

lx = average lux, light colour = 4000K

DIMMABLE LED DRIVER ELDOLED (RGBW)

Output power:	50W max
Input voltage:	120-250V
Input current:	0.7A max
Frequency:	50-60 Hz
Control channels:	4
Dimming range:	100%-0%

Drivers with different dimensions available.
Please contact us.

LED DRIVER

DIMMABLE MULTI LED DRIVER TCI MAXI JOLLY HV 60

Output current adjustable via dip-switch

Operation of the LED Puck SNAP with 500mA

Capacity: @ 500mA = 56W

Input voltage: AC 220-240V

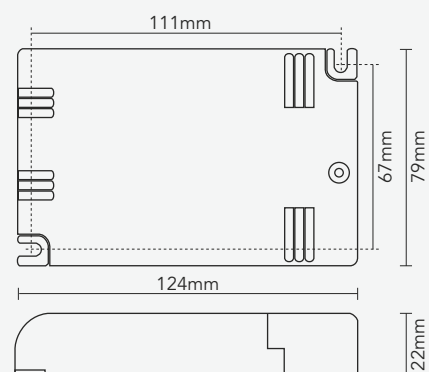Frequency: 50-60 Hz

Connection clamp: max. 2.5mm²

Protection class: IP20

Operating mode: DALI, 1-10V, Push-Dimm

NOTE: Max. 20 pucks per driver (SELV) are allowed.

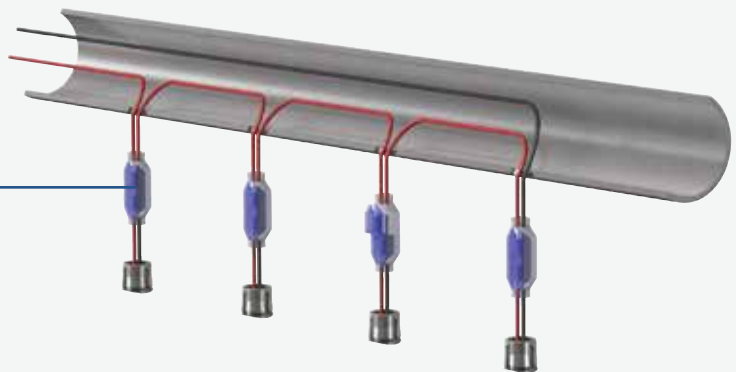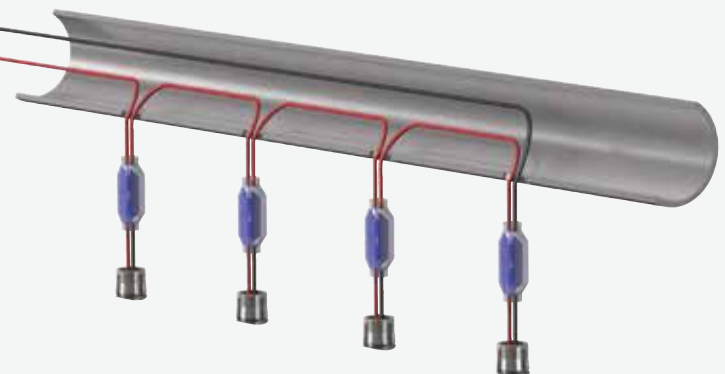Other driver types available on request.

111mm
67mm
79mm
124mm
22mm

LAY THE BLACK AND RED CABLE

PULL OUT THE RED CABLE

CONNECT PUCKS

CONNECT
DRIVER

"SNAP" PUCKS

Design**Light**

The award-winning LED Puck lighting system offers the most flexible and vandal-proof handrail luminaires on the market. The excellent uniformity, maximum light output and wide range of beam angles, light colours and control options make the LED Puck lighting system an all-rounder for installation in handrails, street sculptures and artworks. With up to 180 lumens and an impressive light output of up to 128 lumens per watt, the only 16mm small LED pucks are an extraordinary lighting tool for illuminating handrails and more.

PROJECT SÖLVESBORG BRIDGE, SWEDEN / PLANNER LJUS ARCHITECTURE

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