

RGBW Color Changing Linear Wall Washing and Grazing LED Lighting

PRODUCT SPECIFICATION SHEET

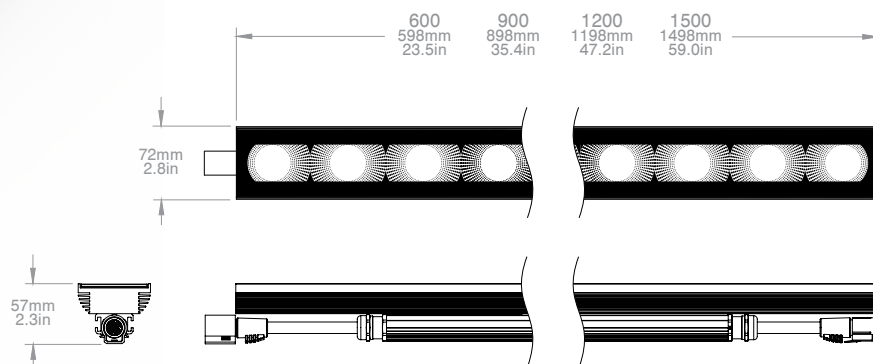


DATE:

TYPE:

COMPANY:

PROJECT:



FEATURES:

Lighting Performance:

- Up to 2413 delivered lumens/meter (724 lumens/foot)
- COLOR-AMP® technology allows up to three times higher light output in specific colors
- White CCT 3000K
- Outstanding color mixing (no striations or colour separation)
- Homogenous light output immediately adjacent to luminaire
- LED pitch is maintained within and between luminaires (no dark spots between fixtures)
- Color match with FL100™ RGBW-IM

Mechanical Details:

- IP66 rated with proprietary sealing process and solid extruded, anodized aluminum UNIBODY™ design
- Electronic micro leak detection test performed for each hermetically sealed fixture
- Meets 3G ANSI C136.31-2010 Vibration standard for Bridge and Overpass Applications
- Optically clear tempered glass lens (no yellowing over time)
- Guaranteed long life time and high performance, no electrolytic capacitors in all DC designs
- Through wiring for end-to-end connection via snap-in connectors

Control:

- DMX control through GVA's power-data equipment
- 300mm resolution, each 300mm section can be addressed autonomously, self-addressing fixtures

Projected Lifetime: L70 > 65,000hrs @ $t_a=50^{\circ}\text{C}$ (122°F)**Operating temperatures:** -40°C to +50°C (-40°F to 122°F)

OPTIONS:

Power Source: INFINITY® Technology (INF) for exceptionally long runs from a single power source or Extra Low Voltage (ELV) for short runs, remote power supplies**Power Options:** 15W, or 20W per 300mm (1ft)**Nominal Length:** 600mm (2ft), 900mm (3ft), 1200mm (4ft) and 1500mm (5ft) or custom length: 300' or 1800'**Beam Distribution:** Range of symmetrical and elliptical beam angles available**Body Color:** Black matte and clear matte anodized or custom color**Accessories:**

- 8 adjustable and 3 non-adjustable mounting brackets
- Glare control louvers

LED Color:

- Custom LED color combinations available

SPECIFICATION LOGIC: STR9® RGBW

FAMILY	NOMINAL LENGTH	BODY COLOR	POWER (per 300mm/1ft)	LED COLOR	OPTICS (FWHM)	INPUT VOLTAGE
STR9	300' 300E ¹ 600 900 1200 1500 1800 ¹	BM - Black Matte Anodized CM - Clear Matte Anodized	15W 20W	RGBW (3000K)	10 - 10° x 10° 12 - 12° x 12° 15 - 15° x 15° 30 - 30° x 30° 60 - 60° x 60° 80 - 80° x 80° 10x35 - 10° x 35° 15x60 - 15° x 60° 30x60 - 30° x 60° Other distributions available. Consult factory.	ELV - 24VDC or 48VDC ^{2,3} INF - 380VDC ⁴

PRODUCT CONFIGURATION

1 - Custom; consult factory, some restrictions apply, 300E applies to end condition





2 - For short/medium runs; 300mm (1ft) addressability for dimming; remote power-data equipment required

3 - For landscape lighting use 24VDC power-data equipment

4 - For long runs; full luminaire addressability for dimming; remote INFINITY® power-data equipment required

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PRODUCT SPECIFICATIONS: STR9® RGBW								
Nominal Length			300/300E ¹	600	900	1200	1500	1800 ¹
Electrical	Rated Input Voltage	24VDC, 48VDC or 380VDC						
	Power Consumption @ 24 or 48VDC Input	15W	15.3/	30.6	45.9	61.2	76.5	91.8
		20W	18.5/	37	55.5	74	92.5	111
	Power Consumption @380VDC Input	15W	/29.3	44.6	59.9	75.2	90.5	105.8
Optical		20W	/32.5	51	69.5	88	106.5	125
	Light Source	4 x High Power 4 in 1 LEDs per 300mm (1ft)						
	COLOR-AMP™ 15W Lumen Output (typical)	All On	687	1374	2061	2748	3435	4122
		Red	323	646	969	1292	1615	1938
		Green	476	952	1428	1904	2380	2856
		Blue	280	560	840	1120	1400	1680
		White (3000K)	531	1062	1593	2124	2655	3186
	COLOR-AMP™ 20W Lumen Output (typical)	All On	724	1448	2172	2896	3620	4344
		Red	315	630	945	1260	1575	1890
		Green	470	940	1410	1880	2350	2820
		Blue	207	414	621	828	1035	1242
		White (3000K)	503	1006	1509	2012	2515	3018
	Optic	High optical efficiency PMMA TIR lens, micro lens film, tempered glass cover lens						
	Beam Angle (FWHM)	10 (10° x 10°), 12 (12° x 12°), 15 (15°x15°), 30 (30°x30°), 60 (60°x60°), 80 (80°x80°) 10x35 (10°x35°), 15x60 (15°x60°) 30x60 (30°x60°)						
	Projected Lumen Maintenance	L70 > 65,000hrs @ t ₅₀ =50°C (122°F)						
Control	Control Protocol	DMX control through GVA's Power-Data Equipment						
Physical	Size (WxH)	mm	72.0 x 57.3					
		inches	2.83 x 2.25					
	Actual Length	mm	298/333	598	898	1198	1498	1798
		inches	11.73/13.11	23.54	35.35	47.17	58.98	70.79
	Weight	kg	1.07	2.14	3.21	4.28	5.35	6.42
		lbs	2.36	4.72	7.08	9.44	11.79	14.15
	Housing	IP66 rated with anodized solid extruded and machined aluminum UNIBODY™ design and proprietary sealing process, tempered flat glass lens						
	Fixture Connections	IP68 rated input and output snap-in connectors for end-to-end connection (sealed unmated)						
	Rated Operation Temperature	-40°C to +50°C (-40°F to 122°F)						
	Minimum Starting Temperature	-30°C (-22°F)						
Certification & Safety	Environment	Dry, Damp or Wet Locations, 0-100% humidity						
	IES Classifications	Class 1 LED Luminaire						
	   		CE Certified QPS Field Inspection RoHS Compliant Meets ANSI C136.31 3G Vibration standard for bridge and overpass applications Constructed to meet requirements outlined in UL1598 & IEC60598 Electronic micro-leak detection test performed on all fixtures to ensure hermetic seal					

1 - Custom configuration, consult factory

These figures are subject to change due to further development and innovations of LED light sources.

SELECTING LUMINAIRE VOLTAGE

24VDC

- for short runs only, up to 3.9m (12ft)
- use when class 2 circuit is required

48VDC

- for any short and medium length run, up to 7.8m (25ft)

380VDC

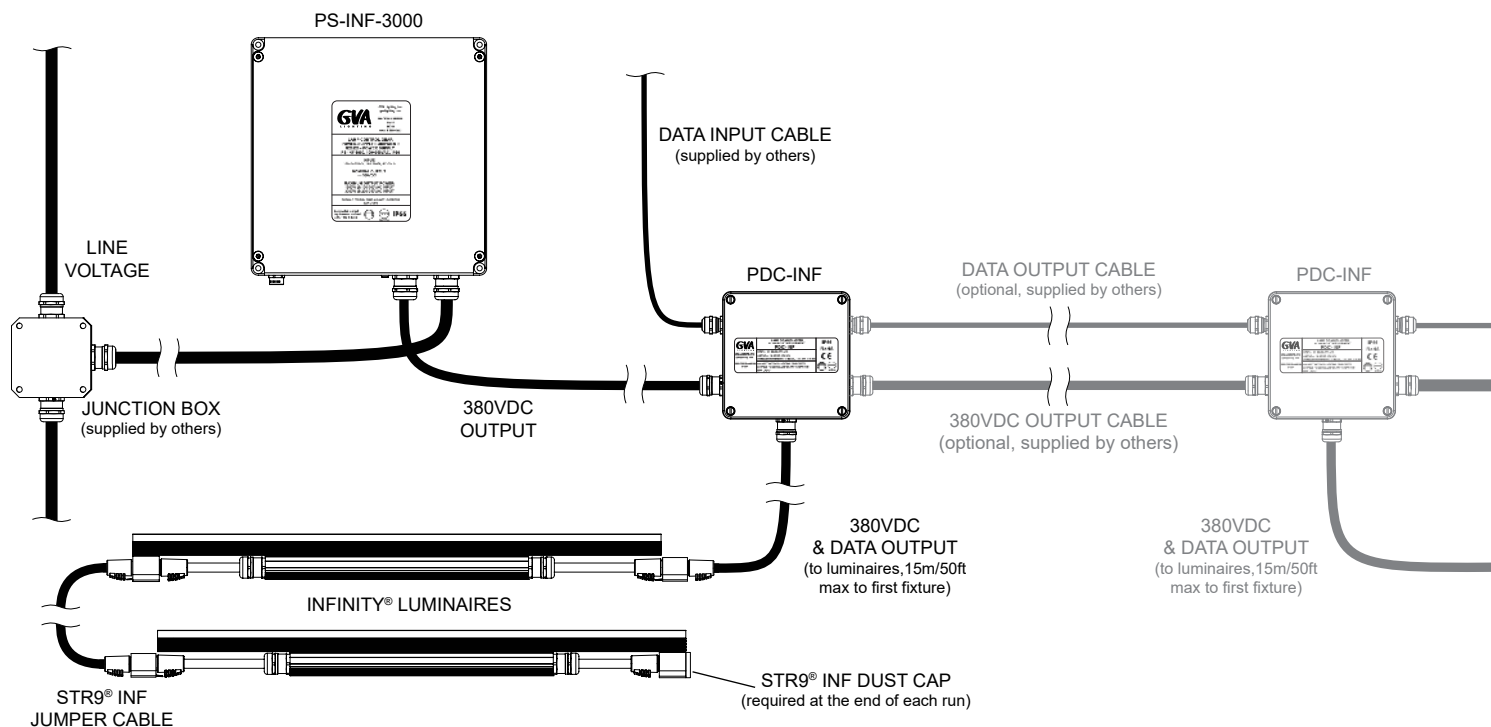
- for long runs, up to 76.5m (250ft)
- compatible with data center power grids
- compatible with solar and wind power

MAXIMUM RUN LENGTHS

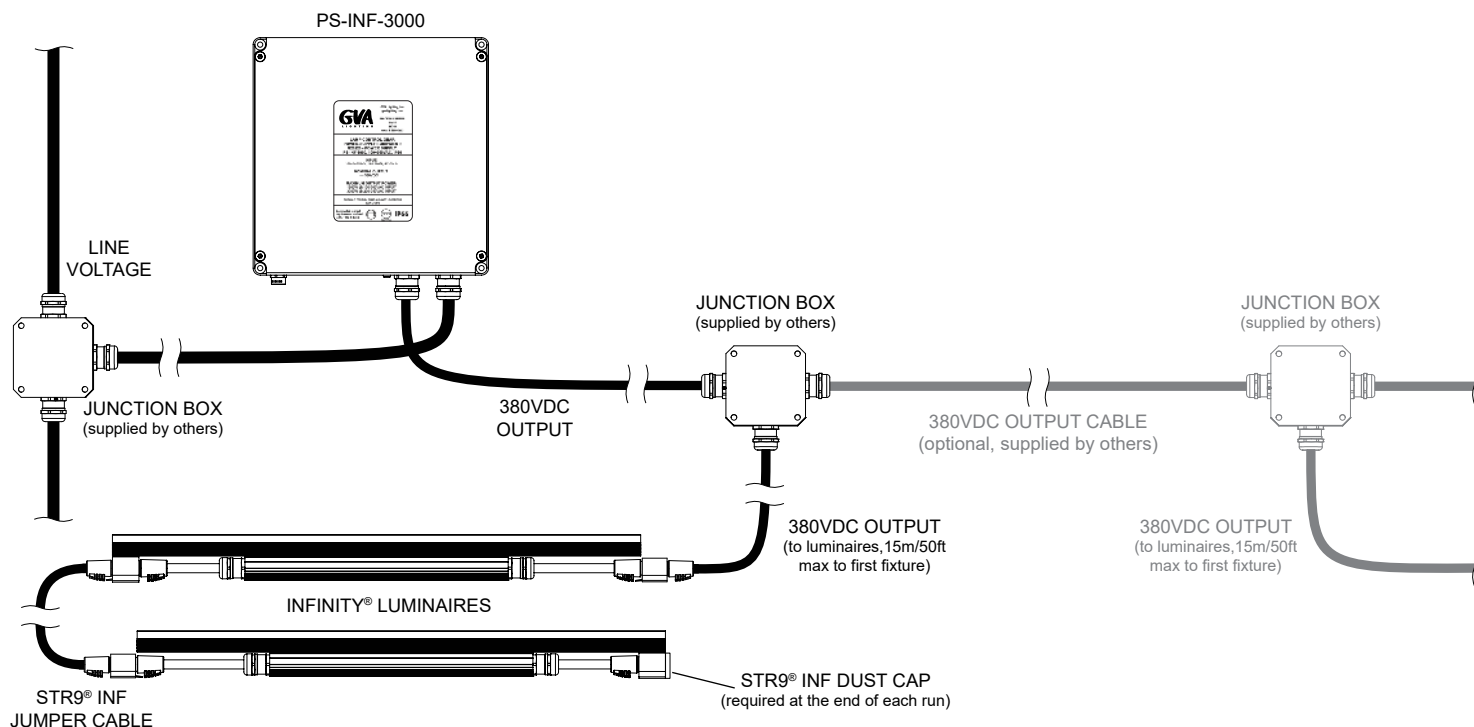
	15W	20W
24VDC	N/A	up to 3.9m (12ft)
48VDC	N/A	up to 7.8m (25ft)
380VDC	N/A	up to 76.5m (250ft)

Ratings are for 30°C, de-rating will be used for higher ambient temperatures

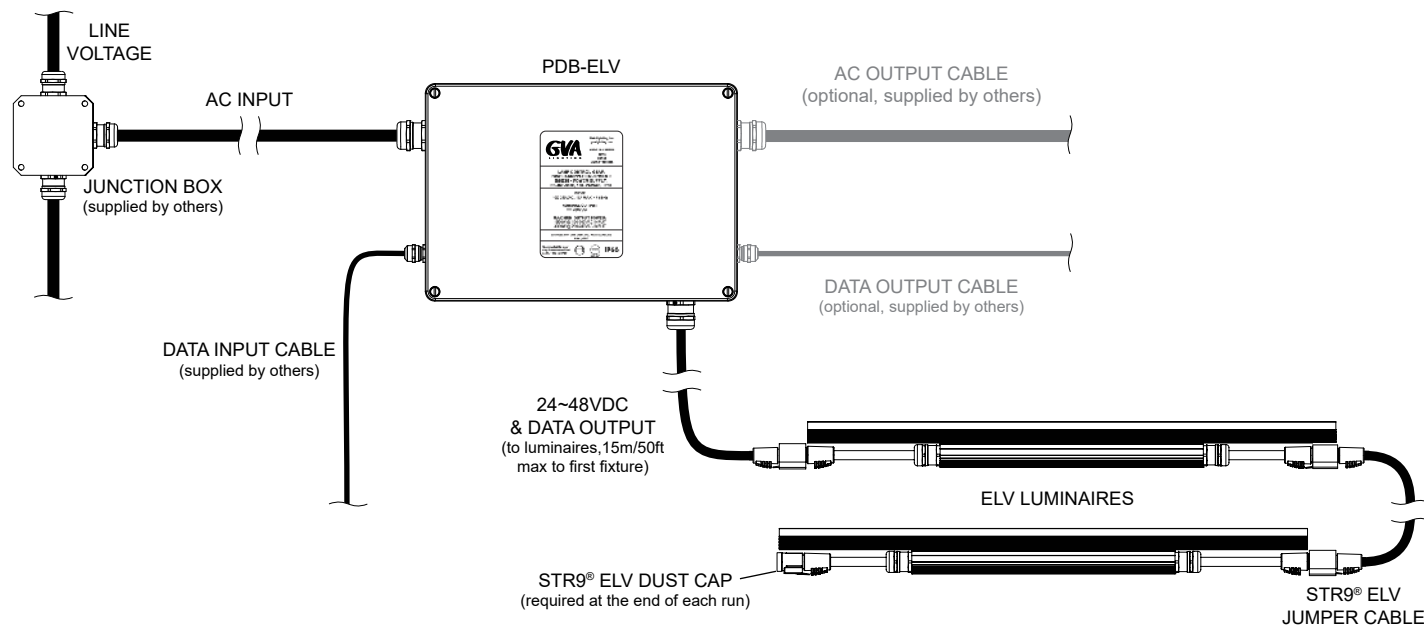
TYPICAL SYSTEM DIAGRAM: INFINITY® WITH CONTROL



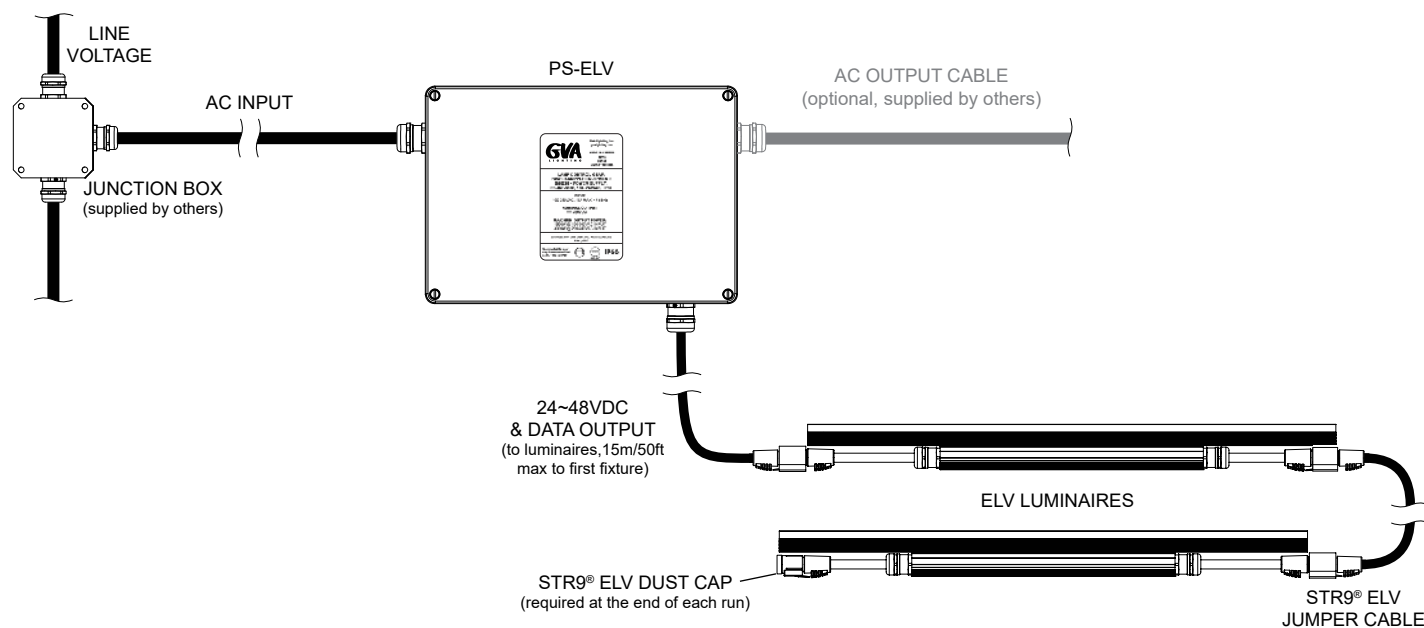
TYPICAL SYSTEM DIAGRAM: INFINITY® WITHOUT CONTROL



TYPICAL SYSTEM DIAGRAM: ELV WITH CONTROL

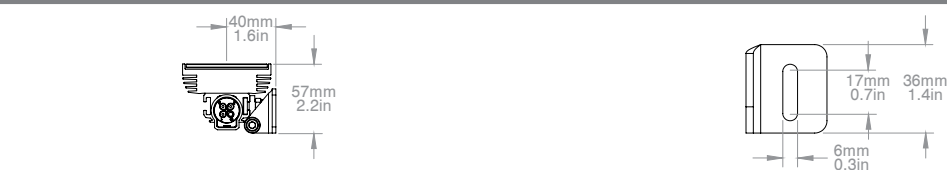


TYPICAL SYSTEM DIAGRAM: ELV WITHOUT CONTROL



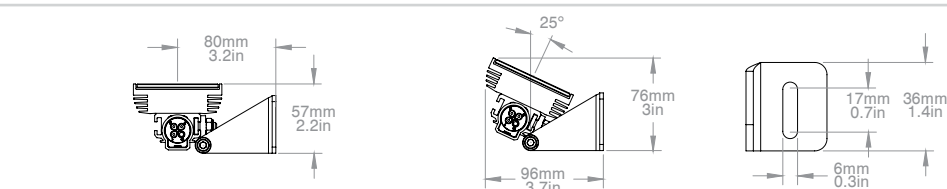
ORDERING LOGIC: STR9® MOUNTING ACCESSORIES

WXX - ADJUSTABLE WALL MOUNT BRACKET KIT



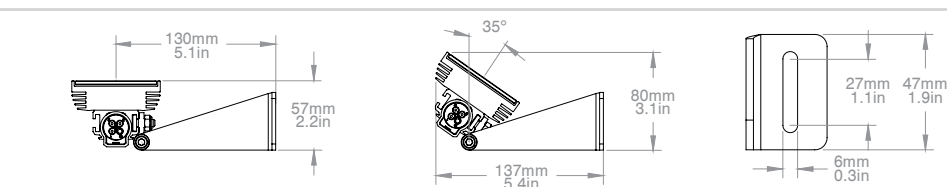
W40 ADJUSTABLE WALL MOUNT

COLOR	PART NUMBER
Clear Matte Anodized	121128
Black Matte Anodized	121129



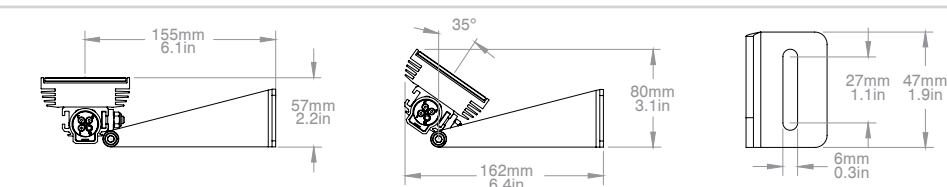
W80 ADJUSTABLE WALL MOUNT

COLOR	PART NUMBER
Clear Matte Anodized	121130
Black Matte Anodized	121131



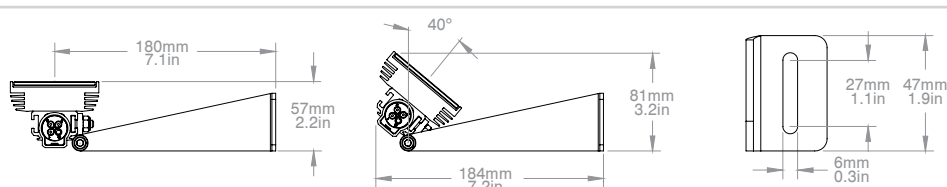
W130 ADJUSTABLE WALL MOUNT

COLOR	PART NUMBER
Clear Matte Anodized	121132
Black Matte Anodized	121133



W155 ADJUSTABLE WALL MOUNT

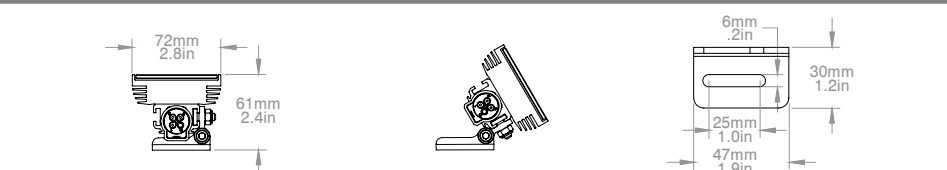
COLOR	PART NUMBER
Clear Matte Anodized	121134
Black Matte Anodized	121135



W180 ADJUSTABLE WALL MOUNT

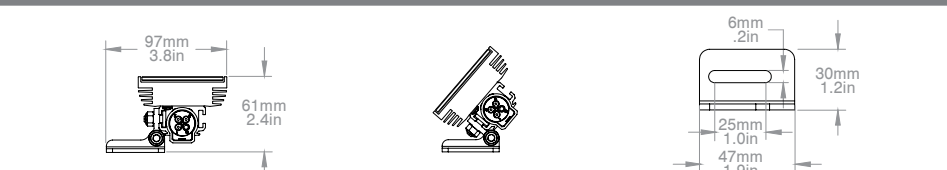
COLOR	PART NUMBER
Clear Matte Anodized	121136
Black Matte Anodized	121137

SMA-I - INSIDE ADJUSTABLE SURFACE MOUNT BRACKET KIT



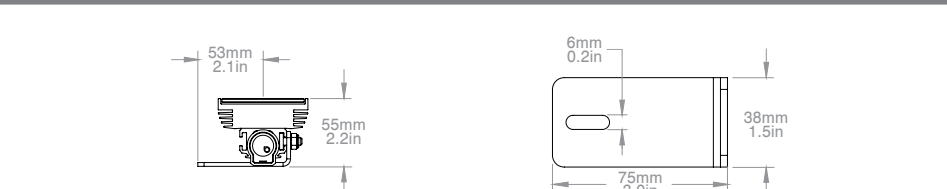
COLOR	PART NUMBER
Clear Matte Anodized	121138
Black Matte Anodized	121139

SMA-O - OUTSIDE ADJUSTABLE SURFACE MOUNT BRACKET KIT



COLOR	PART NUMBER
Clear Matte Anodized	121825
Black Matte Anodized	121826

SML - SURFACE MOUNT BRACKET KIT, NON-ADJUSTABLE



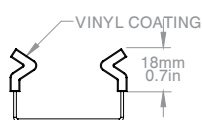
COLOR	PART NUMBER
Clear Matte Anodized	121140
Black Matte Anodized	121141

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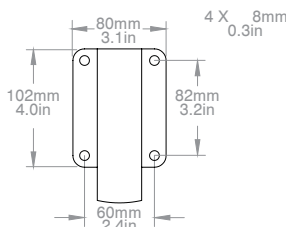
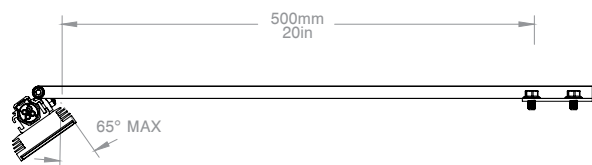
ORDERING LOGIC: STR9® MOUNTING ACCESSORIES

CLP - CLIP MOUNT KIT, NON-ADJUSTABLE

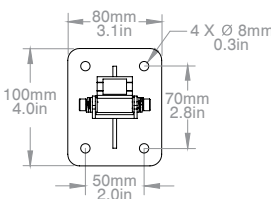
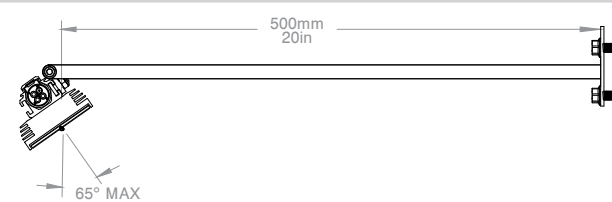


COLOR	PART NUMBER
Stainless Steel	121147

CTLX- ADJUSTABLE CANTILEVER BRACKET

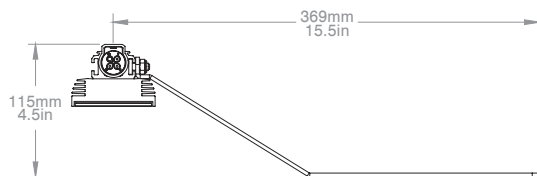


COLOR	PART NUMBER
Clear Matte Anodized	121142
Black Matte Anodized	121143



COLOR	PART NUMBER
Clear Matte Anodized	121144
Black Matte Anodized	121145

MCD - CANTILEVER BRACKET, NON-ADJUSTABLE



COLOR	PART NUMBER
Stainless Steel	121146

ORDERING LOGIC: POWER SUPPLIES & POWER DATA CONVERTORS

INFINITY POWER SUPPLIES, 100-240V AC

PS-INF 3000	PART NUMBER
Single-Phase	G20260
Two-Phase	G20261

INFINITY POWER-DATA CONVERTORS

PDC-INF, INF+ZH, IP66	PART NUMBER
1DMX	G20222
2DMX	G20228
0~10V DALI	G20223

ELV POWER SUPPLIES

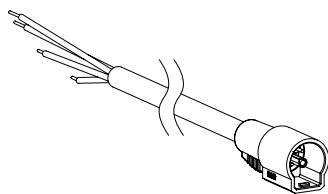
FAMILY	OUTPUT VOLTAGE	POWER (Watts)	INPUT VOLTAGE	CONSTRUCTION
PS	ELV24	60	120~277V AC	IP30 - Indoor IP66 - Outdoor
		240		
	ELV48	100		
		320		
PDB	ELV24	240	120~277V AC	IP30 - Indoor IP66 - Outdoor
		480		
	ELV48	0~10V		
		320		

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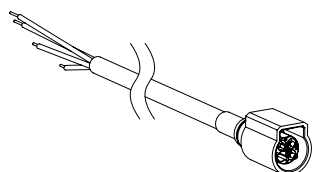
ORDERING LOGIC: COMMON COMPONENTS

STR9® LEADER CABLE ELV



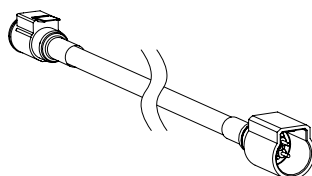
NOMINAL LENGTH	PART NUMBER
3m (10ft)	140723
9m (30ft)	140733
15m (50ft)	140724
CUSTOM	140732

STR9® LEADER CABLE INF



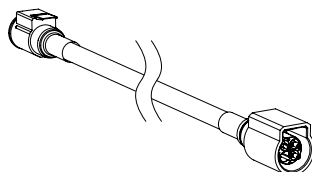
NOMINAL LENGTH	PART NUMBER
3m (10ft)	140725
9m (30ft)	140710
15m (50ft)	140726
CUSTOM	140727

STR9® JUMPER CABLE ELV



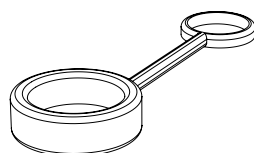
NOMINAL LENGTH	PART NUMBER
0.9m (3ft)	140729
1.8m (6ft)	140730
3.6m (12ft)	140731
CUSTOM	140728

STR9® JUMPER CABLE INF



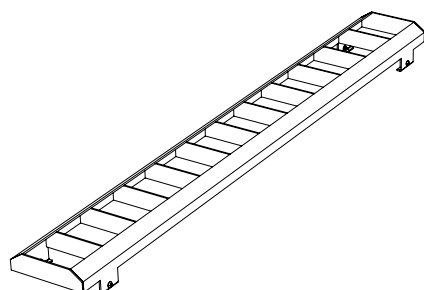
NOMINAL LENGTH	PART NUMBER
0.9m / 3ft	140709
1.8m / 6ft	140734
3.6m / 12ft	140735
CUSTOM	140708

STR9® CONNECTOR DUST CAP, IP67 (must be used at the end of each run)



TYPE	PART NUMBER
STR9-INF	230855
STR-ELV	231182

STR9® GLARE CONTROL LOUVERS



600mm LOUVER

COLOR	PART NUMBER
White	120939
Black	120933

900mm LOUVER

COLOR	PART NUMBER
White	120940
Black	120934

1200mm LOUVER

COLOR	PART NUMBER
White	120941
Black	120935

1500mm LOUVER

COLOR	PART NUMBER
White	120942
Black	120936