STR9®

INFINITY® GVA TECHNOLOGY   **COLOR-AMP®** GVA TECHNOLOGY   **UNIBODY** GVA TECHNOLOGY

GVA LIGHTING

RGB Color Changing Linear Wall Washing and Grazing LED Lighting

DATE:	
TYPE:	
COMPANY:	
PROJECT:	

	600 598mm 23.5in	900 898mm 35.4in	1200 1198mm 47.2in	1500 1498mm 59.0in

72mm 2.8in

57mm 2.3in
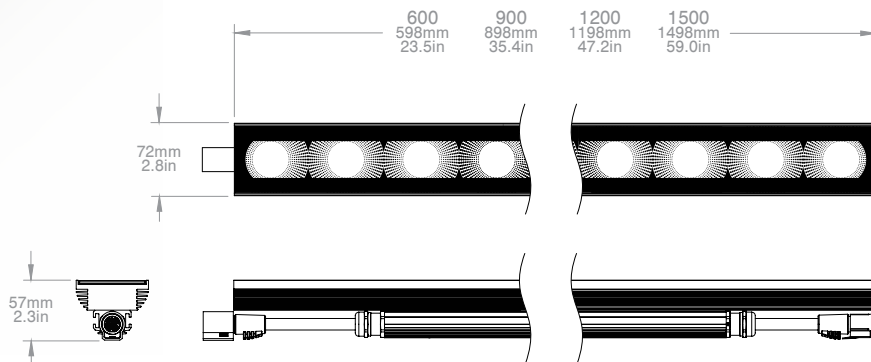
FEATURES:

Lighting Performance:
• Up to 1883 delivered lumens/meter (653 lumens/foot)
• COLOR-AMP® technology allows up to three times higher light output in specific colors
• 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°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[1] or 1800[1]
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® RGB

FAMILY	NOMINAL LENGTH	BODY COLOR	POWER (per 300mm/1ft)	LED COLOR	OPTICS (FWHM)	INPUT VOLTAGE
STR9	300[1] 300E[1] **600** **900** **1200** **1500** 1800[1]	**BM** - Black Matte Anodized **CM** - Clear Matte Anodized	**15W** **20W**	**RGB**	**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° 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

GVA Lighting, Inc. 3400 Ridgeway Drive, #14 Missisauga, Ontario L5L 0A2
Tel: + 1 905 569 6044 Email: info@gvalighting.com

SP-STR9-RGB, 17-11-21 | Page 1 / 7
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PRODUCT SPECIFICATIONS: STR9® RGB

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
		20W	/32.5	51	69.5	88	106.5	125
Optical	Light Source		4 x High Power 4 in 1 LEDs per 300mm (1ft)					
	COLOR-AMP™ 15W Lumen Output (typical)	All On	427	854	1281	1708	2135	2562
		Red	323	646	969	1292	1615	1938
		Green	476	952	1428	1904	2380	2856
		Blue	280	560	840	1120	1400	1680
	COLOR-AMP™ 20W Lumen Output (typical)	All On	653	1306	1959	2612	3265	3918
		Red	315	630	945	1260	1575	1890
		Green	470	940	1410	1880	2350	2820
		Blue	207	414	621	828	1035	1242
	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_a=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)					
	Environment		Dry, Damp or Wet Locations, 0-100% humidity					
Certification & Safety	IES Classifications		Class 1 LED Luminaire					
	c(UL)us CE RoHS ANSI C136.31-2010		CE Certified QPS Feild 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
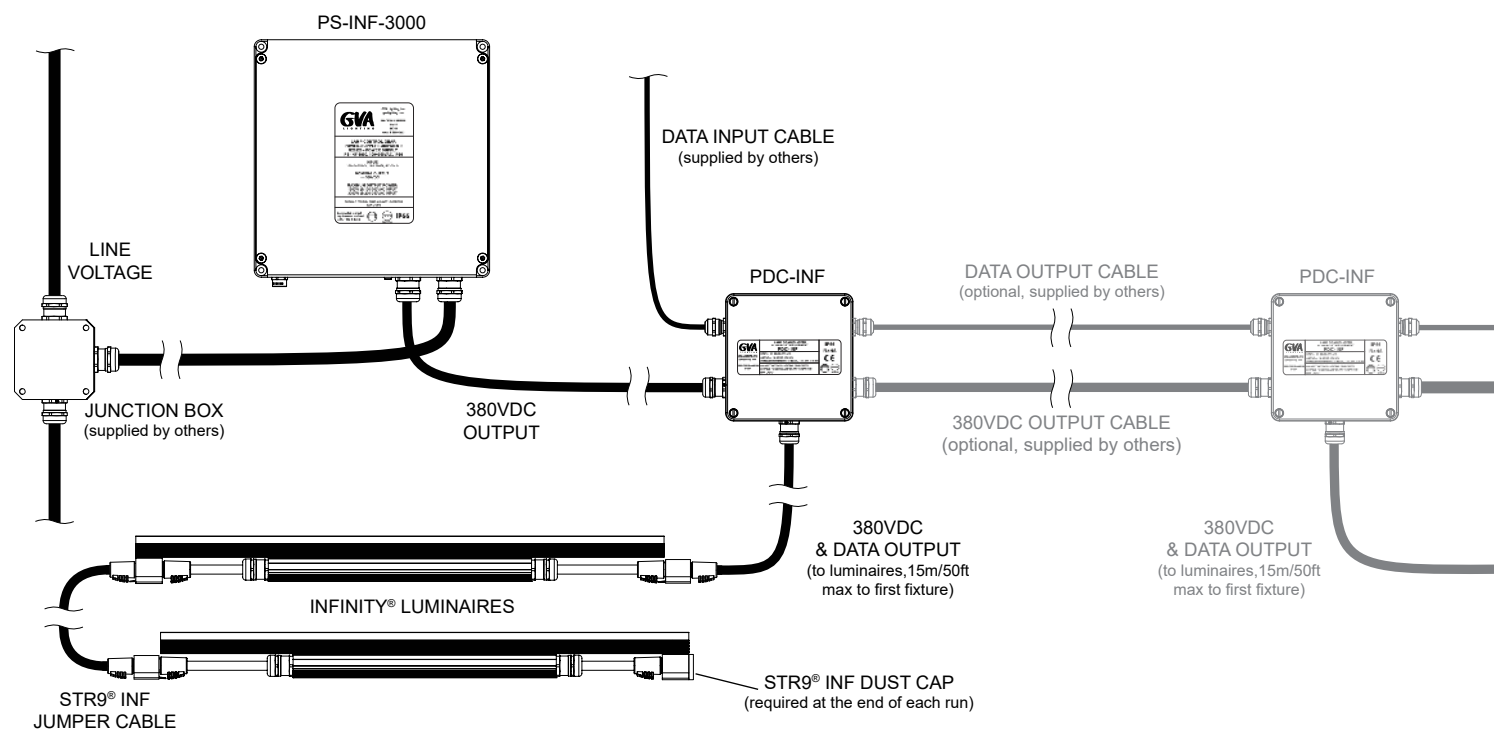- compatible with solar and wind power

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

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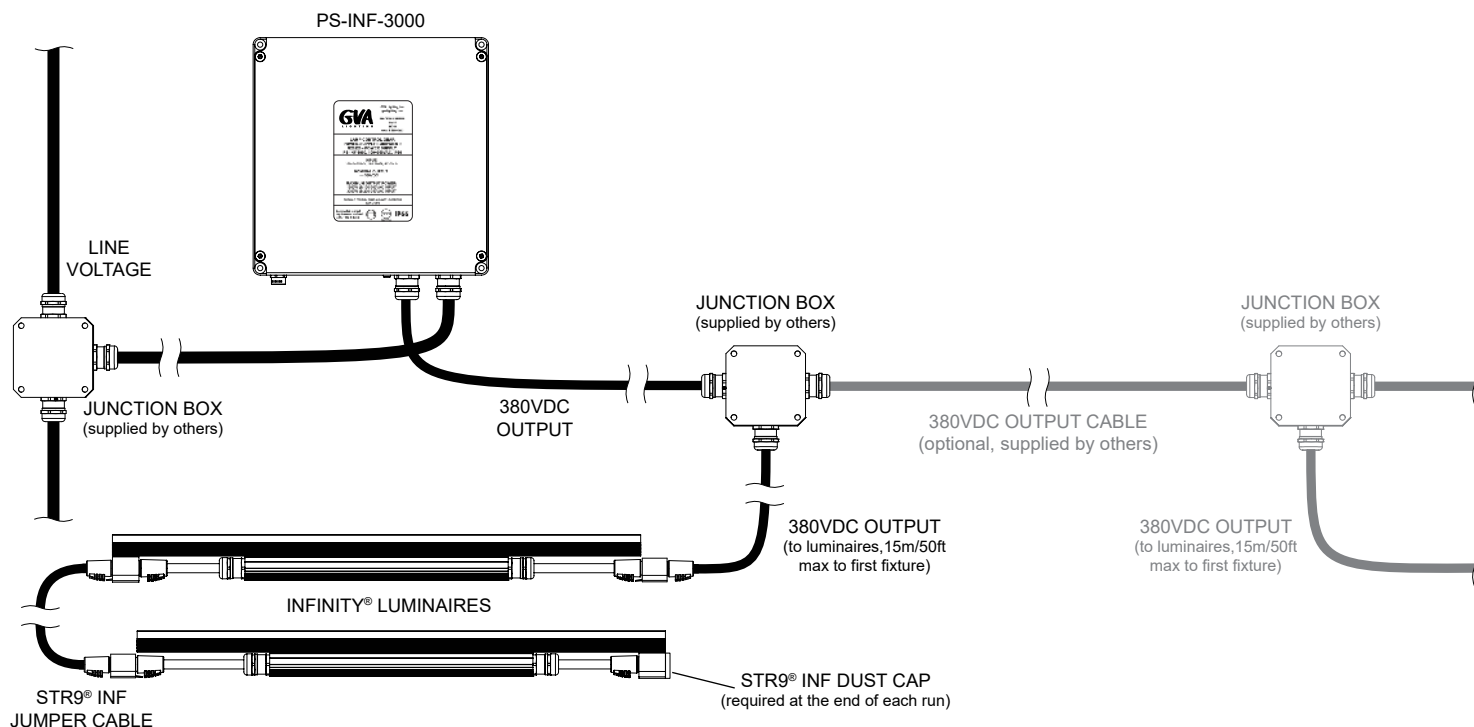
SP-STR9-RGB, 17-11-21 | Page 2 / 7
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PRODUCT SPECIFICATION SHEET
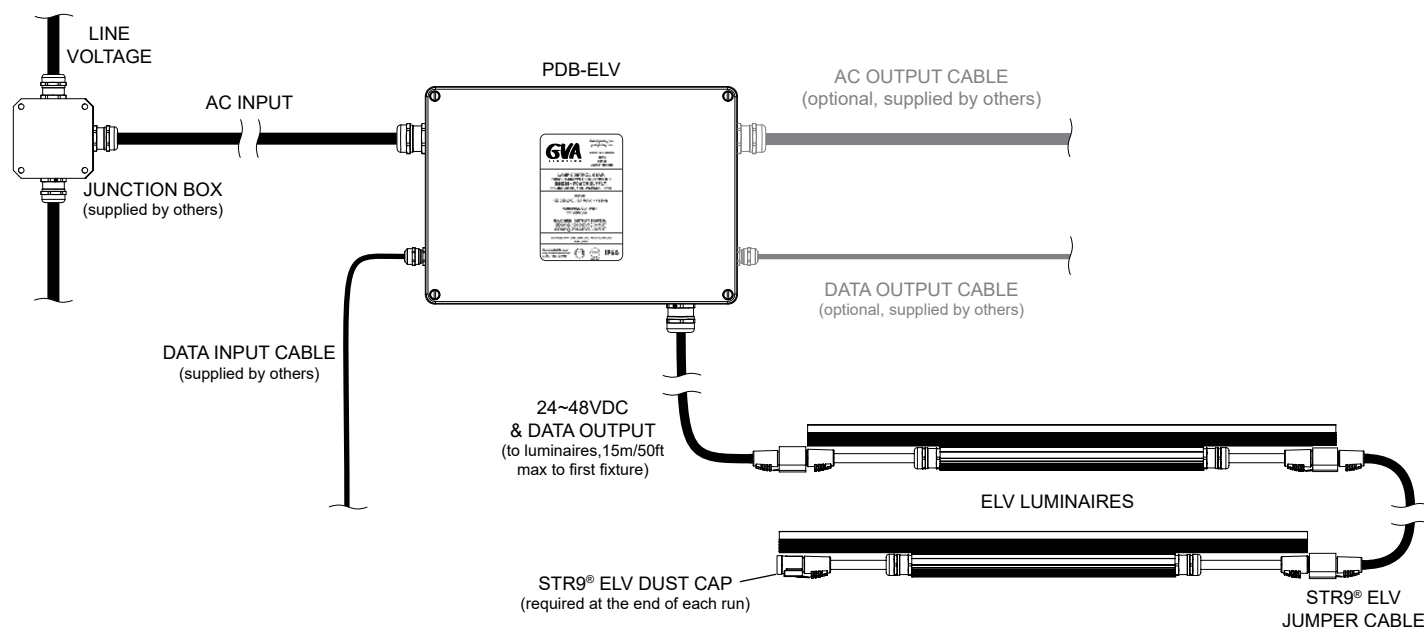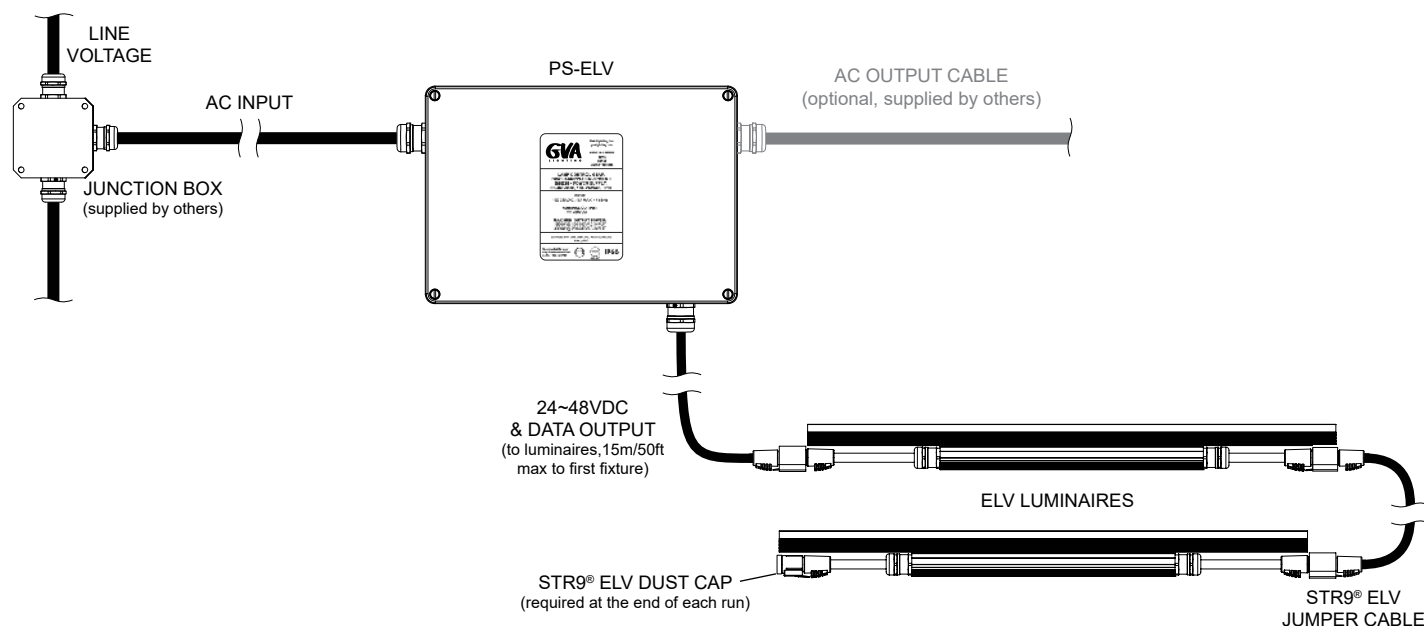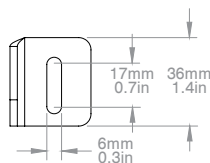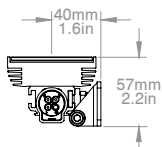
TYPICAL SYSTEM DIAGRAM: INFINITY® WITH CONTROL

PS-INF-3000

DATA INPUT CABLE
(supplied by others)

LINE VOLTAGE

PDC-INF

DATA OUTPUT CABLE
(optional, supplied by others)

PDC-INF

JUNCTION BOX
(supplied by others)

380VDC OUTPUT

380VDC OUTPUT CABLE
(optional, supplied by others)

380VDC
& DATA OUTPUT
(to luminaires,15m/50ft
max to first fixture)

380VDC
& DATA OUTPUT
(to luminaires,15m/50ft
max to first fixture)

INFINITY® LUMINAIRES

STR9® INF DUST CAP
(required at the end of each run)

STR9® INF
JUMPER CABLE

TYPICAL SYSTEM DIAGRAM: INFINITY® WITHOUT CONTROL

PS-INF-3000

LINE VOLTAGE

JUNCTION BOX
(supplied by others)

JUNCTION BOX
(supplied by others)

JUNCTION BOX
(supplied by others)

380VDC OUTPUT

380VDC OUTPUT CABLE
(optional, supplied by others)

380VDC OUTPUT
(to luminaires,15m/50ft
max to first fixture)

380VDC OUTPUT
(to luminaires,15m/50ft
max to first fixture)

INFINITY® LUMINAIRES

STR9® INF DUST CAP
(required at the end of each run)

STR9® INF
JUMPER CABLE

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SP-STR9-RGB, 17-11-21 | Page 3 / 7
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GVA LIGHTING

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TYPICAL SYSTEM DIAGRAM: ELV WITH CONTROL

LINE VOLTAGE

AC INPUT

PDB-ELV

AC OUTPUT CABLE
(optional, supplied by others)

JUNCTION BOX
(supplied by others)

DATA OUTPUT CABLE
(optional, supplied by others)

DATA INPUT CABLE
(supplied by others)

24~48VDC
& DATA OUTPUT
(to luminaires,15m/50ft
max to first fixture)

ELV LUMINAIRES

STR9® ELV DUST CAP
(required at the end of each run)

STR9® ELV
JUMPER CABLE

TYPICAL SYSTEM DIAGRAM: ELV WITHOUT CONTROL

LINE VOLTAGE

AC INPUT

PS-ELV

AC OUTPUT CABLE
(optional, supplied by others)

JUNCTION BOX
(supplied by others)

24~48VDC
& DATA OUTPUT
(to luminaires,15m/50ft
max to first fixture)

ELV LUMINAIRES

STR9® ELV DUST CAP
(required at the end of each run)

STR9® ELV
JUMPER CABLE

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SP-STR9-RGB, 17-11-21 | Page 4 / 7
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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
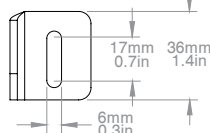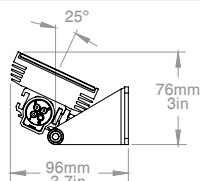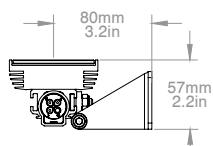
W80 ADJUSTABLE WALL MOUNT

COLOR	PART NUMBER
Clear Matte Anodized	121130
Black Matte Anodized	121131
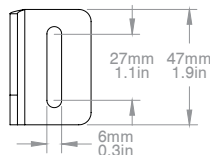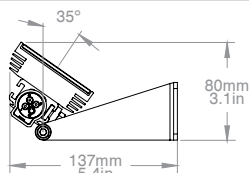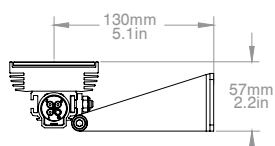
W130 ADJUSTABLE WALL MOUNT

COLOR	PART NUMBER
Clear Matte Anodized	121132
Black Matte Anodized	121133
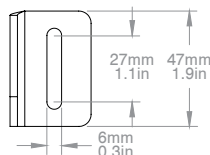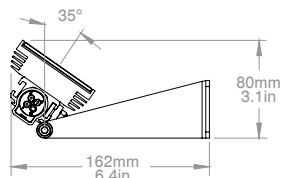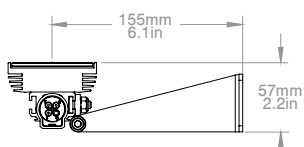
W155 ADJUSTABLE WALL MOUNT

COLOR	PART NUMBER
Clear Matte Anodized	121134
Black Matte Anodized	121135
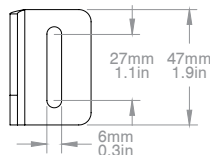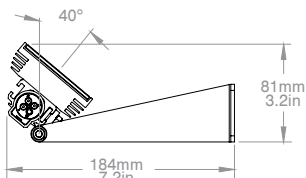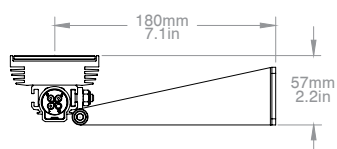
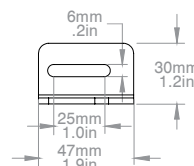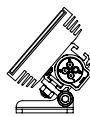#### W180 ADJUSTABLE WALL MOUNT
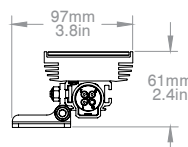
COLOR	PART NUMBER
Clear Matte Anodized	121136
Black Matte Anodized	121137

SMA-I - INSIDE ADJUSTABLE SURFACE MOUNT BRACKET KIT
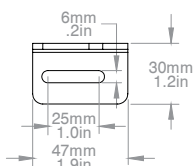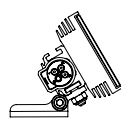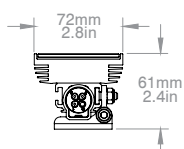
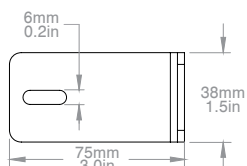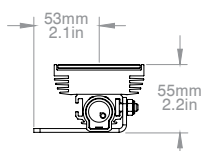| COLOR	PART NUMBER
Clear Matte Anodized	121138
Black Matte Anodized	121139

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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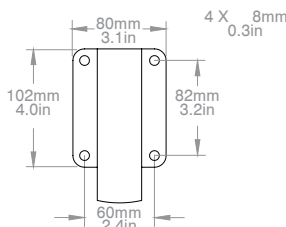
SP-STR9-RGB, 17-11-21 | Page 5 / 7
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ORDERING LOGIC: STR9® MOUNTING ACCESSORIES

CLP - CLIP MOUNT KIT, NON-ADJUSTABLE

61mm 2.4in · 52mm 2.0in · 25mm 1.0in · ø 5.5mm 0.2in · VINYL COATING · 18mm 0.7in
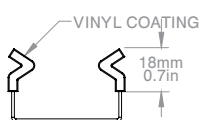
COLOR	PART NUMBER
Stainless Steel	121147

CTLX- ADJUSTABLE CANTILEVER BRACKET

500mm 20in · 65° MAX · 80mm 3.1in · 4 X 8mm 0.3in · 102mm 4.0in · 82mm 3.2in · 60mm 2.4in

CTLH - HORIZONTAL MOUNTING BRACKET
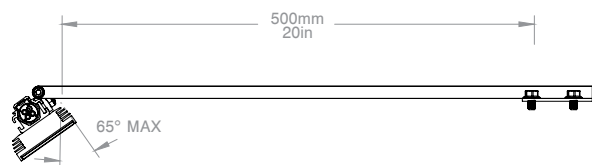
COLOR	PART NUMBER
Clear Matte Anodized	121142
Black Matte Anodized	121143

500mm 20in · 65° MAX · 80mm 3.1in · 4 X Ø 8mm 0.3in · 100mm 4.0in · 70mm 2.8in · 50mm 2.0in

CTLV - VERTICAL MOUNTING BRACKET
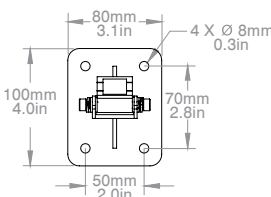
COLOR	PART NUMBER
Clear Matte Anodized	121144
Black Matte Anodized	121145

MCD - CANTILEVER BRACKET, NON-ADJUSTABLE

369mm 15.5in · 115mm 4.5in

MCD
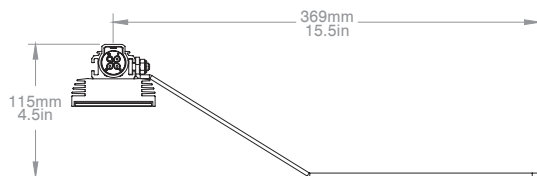
COLOR	PART NUMBER
Stainless Steel	121146

ORDERING LOGIC: POWER SUPPLIES & POWER DATA CONVERTORS

INFINITY POWER SUPPLIES, 100-240V AC   **PS-INF 3000**

INPUT TYPE	PART NUMBER
Single-Phase	G20260
Two-Phase	G20261

INFINITY POWER-DATA CONVERTORS   **PDC-INF, INF+ZH, IP66**

INPUT TYPE	PART NUMBER
1DMX	G20222
2DMX	G20228
0~10V DALI	G20223

ELV POWER SUPPLIES

FAMILY	OUTPUT VOLTAGE		POWER (Watts)		INPUT VOLTAGE	CONSTRUCTION
PS	**ELV24**		60	240	**120~277V AC**	**IP30** - Indoor
			100	320		**IP66** - Outdoor
	ELV48		240	480		
			320	640		

FAMILY	OUTPUT VOLTAGE		POWER (Watts)		CONTROL INPUT	OUTPUT	INPUT VOLTAGE	CONSTRUCTION
PDB	**ELV24**		60	240	**0~10V**	**ELV+ZH** - ELV Power & ZH Data	**120~277V AC**	**IP30** - Indoor
			100	320	**DALI**			**IP66** - Outdoor
	ELV48		240	480	**DMX**			
			320	640				

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SP-STR9-RGB, 17-11-21 | Page 6 / 7
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RGB Color Changing Linear Wall Washing and Grazing LED Lighting PRODUCT SPECIFICATION SHEET

ORDERING LOGIC: COMMON COMPONENTS

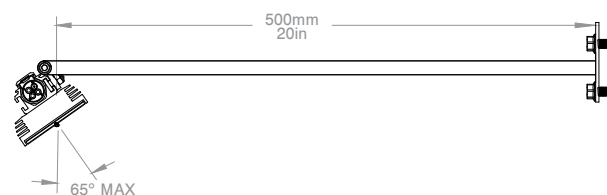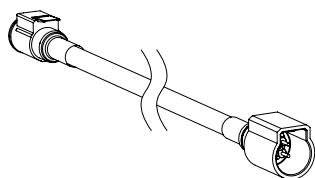### STR9® LEADER CABLE ELV
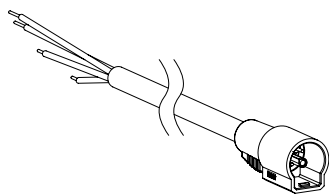
NOMINAL LENGTH	PART NUMBER
3m (10ft)	140723
9m (30ft)	140733
15m (50ft)	140724
CUSTOM	140732

STR9® LEADER CABLE INF
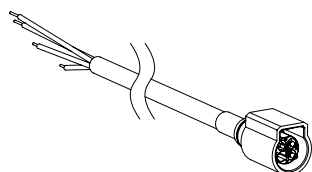
NOMINAL LENGTH	PART NUMBER
3m (10ft)	140725
9m (30ft)	140710
15m (50ft)	140726
CUSTOM	140727

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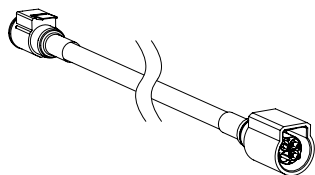
NOMINAL LENGTH	PART NUMBER
0.9m / 3ft	140709
1.8m / 6ft	140734
3.6m / 12ft	140735
CUSTOM	140708

STR9® CONNECTOR DUST CAP, IP67 (must be used at the end of each run)
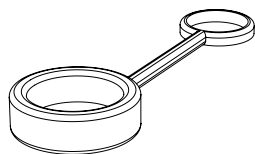
TYPE	PART NUMBER
STR9-INF	230855
STR-ELV	231182

STR9® GLARE CONTROL LOUVERS
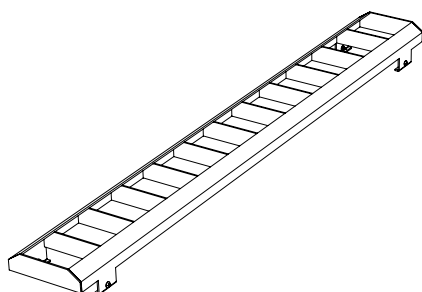
600mm LOUVER	
COLOR	PART NUMBER
White	120939
Black	120933
900mm LOUVER	
COLOR	PART NUMBER
White	120940
Black	120934
1200mm LOUVER	
COLOR	PART NUMBER
White	120941
Black	120935
1500mm LOUVER	
COLOR	PART NUMBER
White	120942
Black	120936

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SP-STR9-RGB, 17-11-21 | Page 7 / 7
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