STR9®

INFINITY® GVA TECHNOLOGY **UNIBODY** GVA TECHNOLOGY

GVA LIGHTING

Monochromatic Linear Wall Washing and Grazing LED Lighting

DATE:	
TYPE:	
COMPANY:	
PROJECT:	

600mm 23.5in   900mm 35.4in   1200mm 47.2in   1500mm 59.0in

72mm 2.9in

56mm 2.2in

FEATURES:

- Up to 4000 delivered lumens/meter (1200 lumens/foot)
- Superior quality of white light: excellent LED to LED color consistency and specified color over angle
- Diffusing optical film creates uniform light output immediately adjacent to luminaire
- LED pitch is maintained within and between luminaires (no dark spots between fixtures)
- DMX, DALI or 0~10V dimming through GVA's power-data equipment
- Through wiring for end-to-end connection via snap-in connectors
- Compact size, only 56mm (2.20in) high x 72mm (2.83in) wide
- Four standard nominal lengths: 600mm (2ft), 900mm (3ft), 1200mm (4ft) and 1500mm (5ft)
- IP66 rated with UNIBODY™ design & proprietary sealing process
- Meets 3G ANSI C136.31-2010 Vibration standard for Bridge and Overpass Applications
- Projected lifetime: L70 >150,000hrs @ 25°C/77°F
- Operating temperature -40°C to +50°C, -40°F to 122°F
- Optically clear tempered glass lens (no yellowing over time)
- 8 adjustable and 3 non-adjustable mounting brackets
- Guaranteed long life time and high performance, no electrolytic capacitors in all DC designs

OPTIONS:

- INFINITY® Technology for exceptionally long runs from a single power source
- Power Options: 5W (ASHRAE/IESNA), 10W, or 15W per 300mm (1ft)
- Custom lengths: 300[1] or 1800[1]
- Glare control louvers
- Custom LED color combinations
- Non-standard beam distributions available
- Maximum lumen output adjustable during commissioning

SPECIFICATION LOGIC: STR9® MONO

FAMILY	NOMINAL LENGTH	BODY COLOR	POWER (per 300mm/1ft)	LED COLOR	OPTICS (FWHM)	INPUT VOLTAGE
STR9	300[1] 600 900 1200 1500 1800[1]	**BM** - Black Matte Anodized **CM** - Clear Matte Anodized	5W 10W 15W	2200K [1] 2700K 3000K 3500K 4000K 5000K 6500K **RD** - Red **AM** - Amber **GR** - Green **BL** - Blue **RB** - Royal Blue	**8** - 8°x8° **10** - 10°x10° **15** - 15°x15° **30** - 30°x30° **60** - 60°x60° **80** - 80°x80° **10x30** - 10°x30° **10x60** - 10°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
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
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PRODUCT SPECIFICATIONS: STR9® MONO

Nominal Length			300[1]	600	900	1200	1500	1800[1]
Electrical	Rated Input Voltage		24VDC, 48VDC or 380VDC					
	Power Consumption (maximum)		5W 7.5W 15W	5W 10W 15W	10W 20W 30W	15W 30W 45W	20W 40W 60W	25W 50W 75W	30W 60W 90W
Optical	Light Source		6 x Nichia 219 LEDs per 300mm/1ft					
	CRI		83					
	Lumen Output (typical)[2]		5W 7.5W 15W	420 841 1261	840 1682 2522	1260 2523 3783	1680 3364 5044	2100 4205 6305	2520 5046 7566
	Beam Angle (FWHM)		10°, 30°, 60°, 80°, 10°x60°, 30°x60°					
Control	Control Protocol		DMX, DALI or 0~10V control through GVA Power-Data Equipment					
Physical	Size (WxH)	mm inches	72.0 x 56.4 2.83 x 2.22					
	Length	mm inches	298 11.7	598 23.5	898 35.4	1198 47.2	1498 59.0	1798 70.8
	Weight	kg lbs	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
	Housing		Solid extruded aluminum IP66 rated UNIBODY™, 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, -22°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					

1 - Custom configuration, consult factory
2 - Measured with 4000K. Warmer color temperatures typically have a lower lumen output.

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

SELECTING LUMINAIRE VOLTAGE

24VDC
- for short runs only
- use when class 2 circuit is required

48VDC
- for any short and medium length run, up to 34.5m/115ft

380VDC
- for long runs, up to 325.5m/1085ft
- compatible with data center power grids
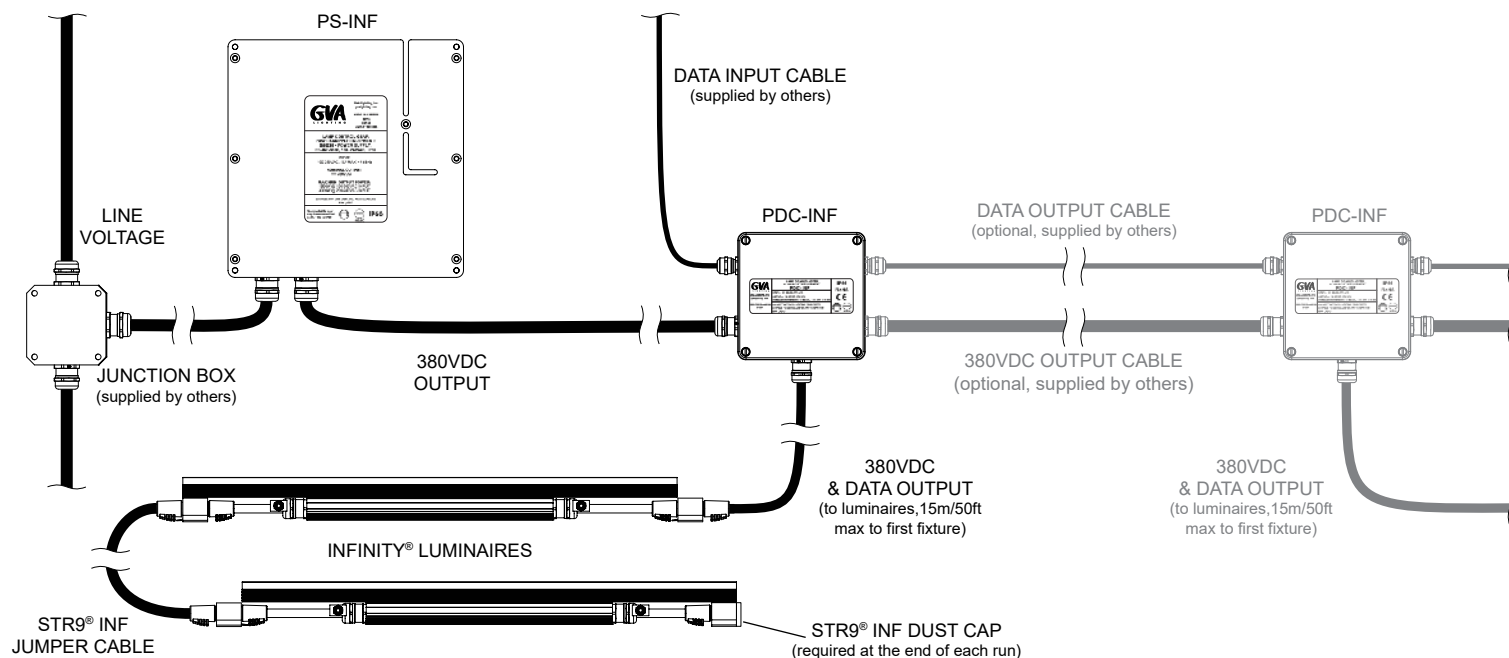- compatible with solar and wind power

MAXIMUM RUN LENGTHS

Input Voltage	Power Per 300mm (1ft)		
	5W	10W	15W
24VDC	13.8m/46ft	12m/40ft	6m/20ft
48VDC	34.5m/115ft	24m/80ft	12m/40ft
380VDC	325.5m/1085ft	225m/750ft	117m/390ft

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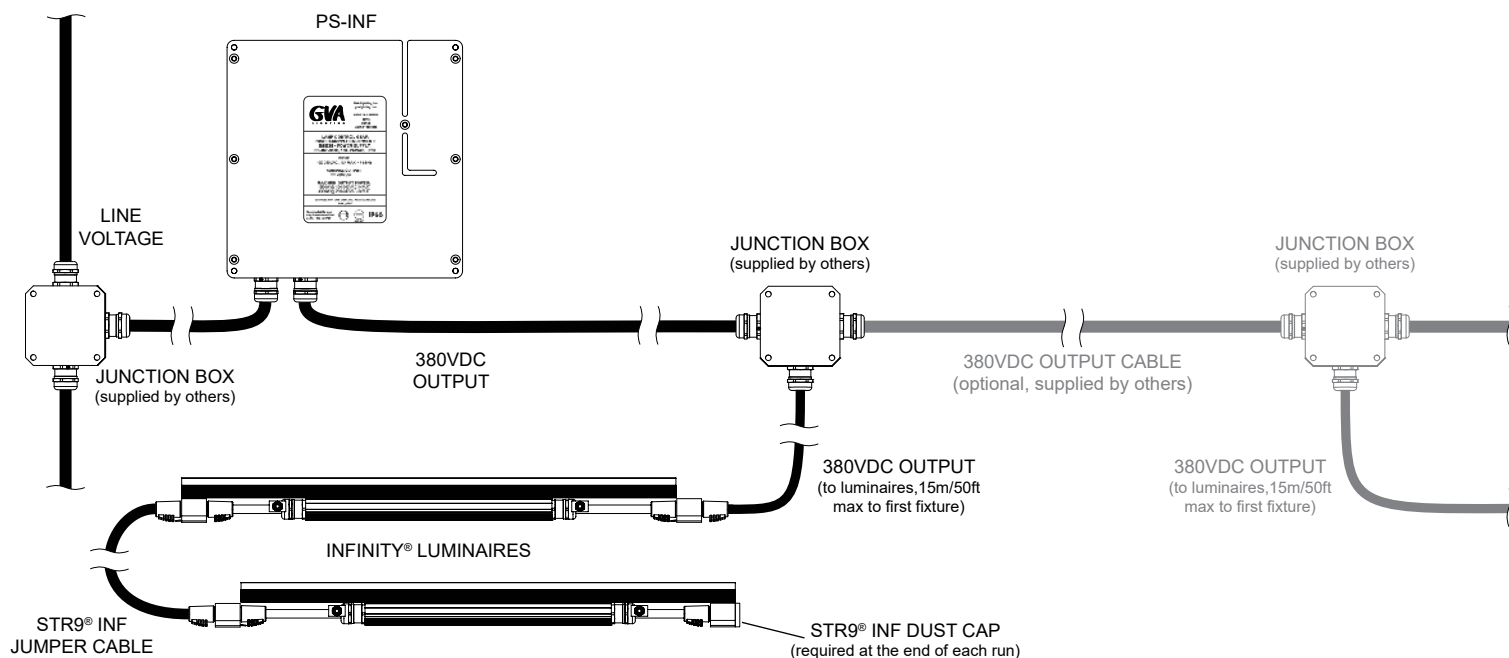
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GVA LIGHTING

Monochromatic Linear Wall Washing and Grazing LED Lighting

TYPICAL SYSTEM DIAGRAM: INFINITY® WITH CONTROL

PS-INF

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
JUMPER CABLE

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

TYPICAL SYSTEM DIAGRAM: INFINITY® WITHOUT CONTROL

PS-INF

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
JUMPER CABLE

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

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TYPICAL SYSTEM DIAGRAM: ELV WITH CONTROL

LINE VOLTAGE

AC INPUT

PS-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
JUMPER CABLE

STR9® ELV DUST CAP
(required at the end of each run)
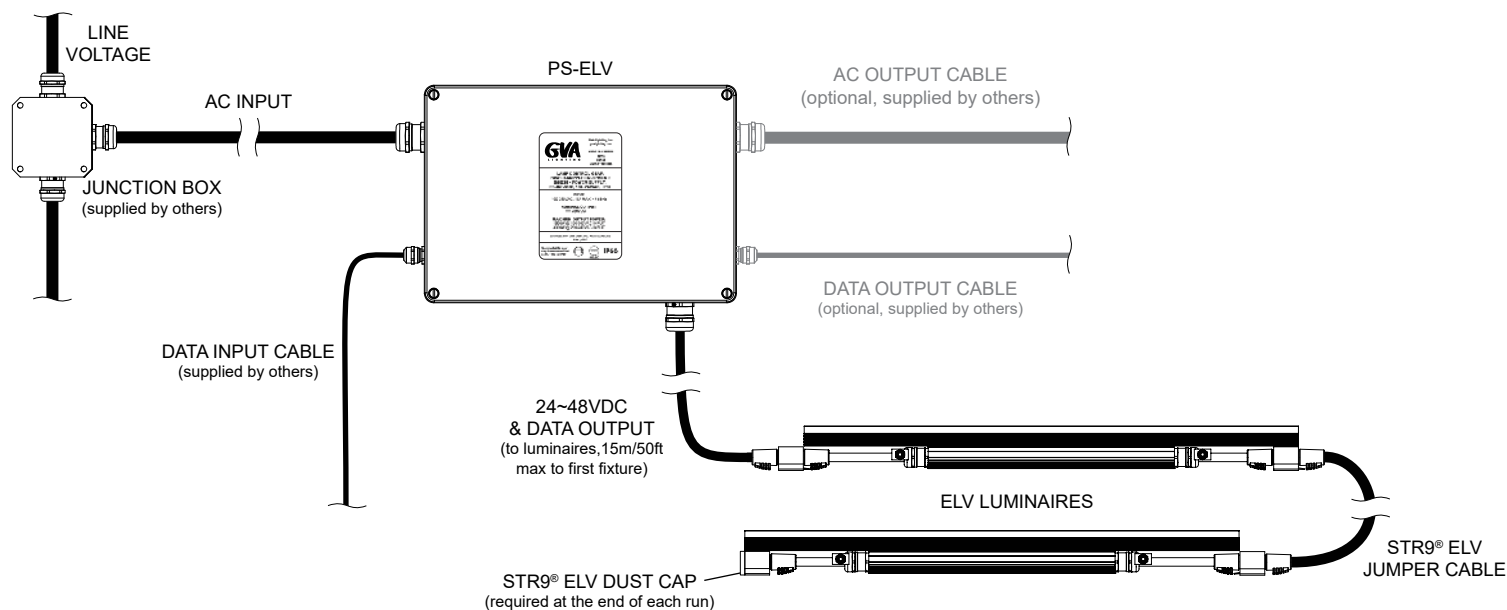
TYPICAL SYSTEM DIAGRAM: ELV WITHOUT CONTROL
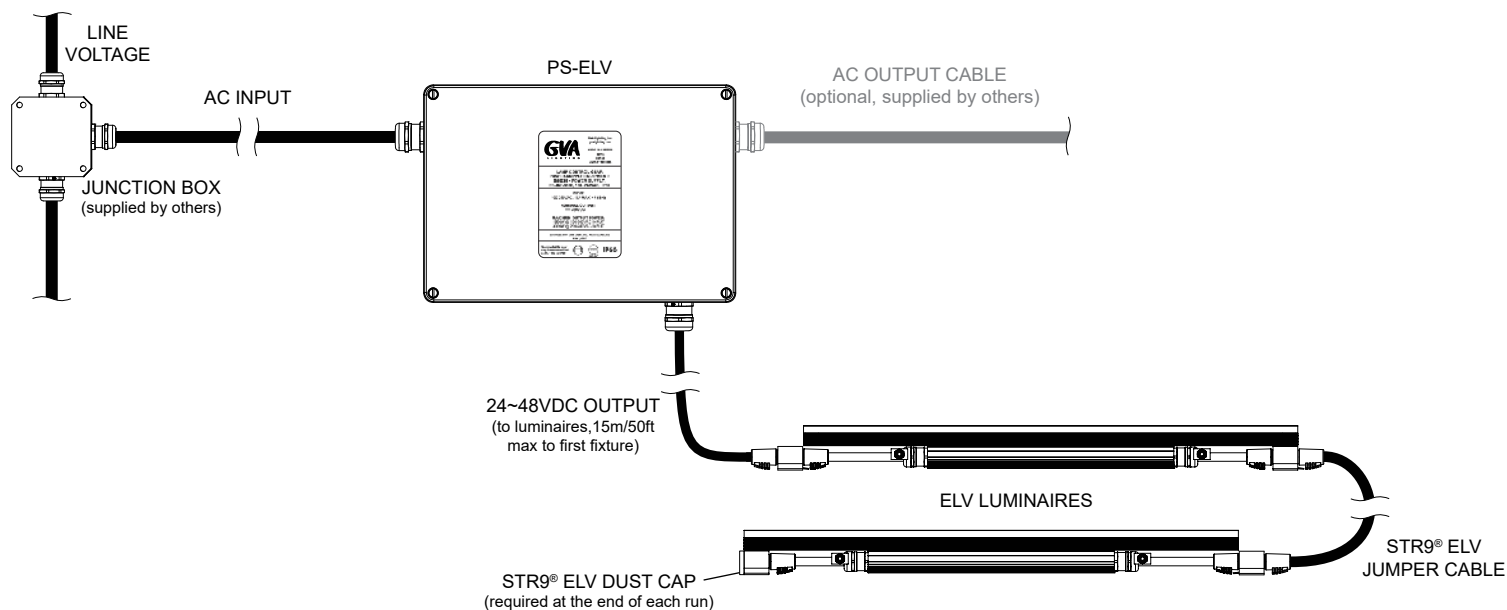
LINE VOLTAGE

AC INPUT

PS-ELV

AC OUTPUT CABLE
(optional, supplied by others)

JUNCTION BOX
(supplied by others)

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

ELV LUMINAIRES

STR9® ELV
JUMPER CABLE

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

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ORDERING LOGIC: STR9® MOUNTING ACCESSORIES

WXX - ADJUSTABLE WALL MOUNT BRACKET KIT
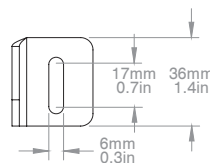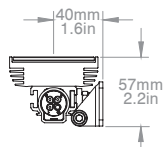
W40 - WALL MOUNT ADJUSTABLE

COLOR	PART NUMBER
Clear Matte Anodized	121128
Black Matte Anodized	121129
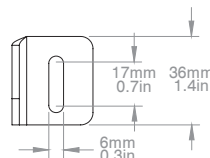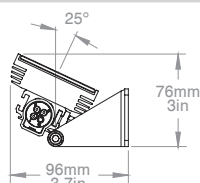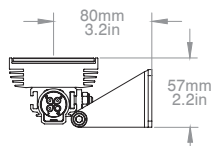
W80 - WALL MOUNT ADJUSTABLE

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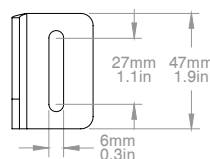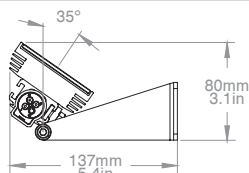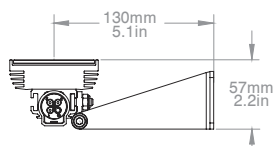
W130 - WALL MOUNT ADJUSTABLE

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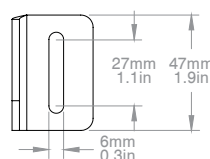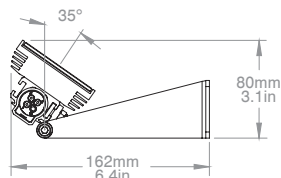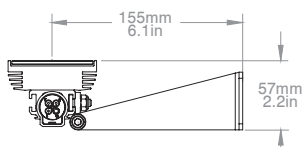
W155 - WALL MOUNT ADJUSTABLE

COLOR	PART NUMBER
Clear Matte Anodized	121134
Black Matte Anodized	121135
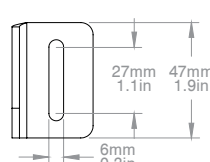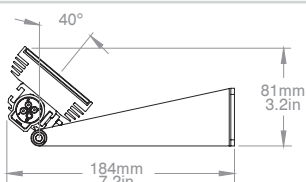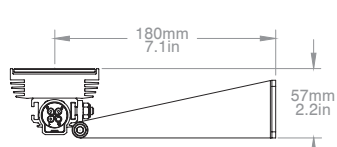
W180 - WALL MOUNT ADJUSTABLE

COLOR	PART NUMBER
Clear Matte Anodized	121136
Black Matte Anodized	121137

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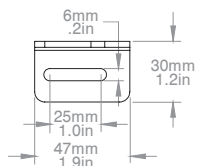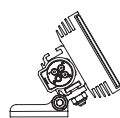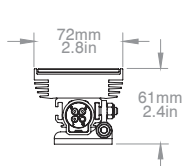
COLOR	PART NUMBER
Clear Matte Anodized	121138
Black Matte Anodized	121139

SMA-O - OUTSIDE ADJUSTABLE SURFACE MOUNT BRACKET KIT
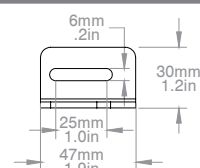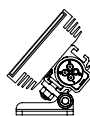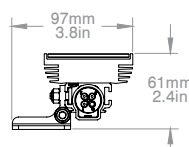
COLOR	PART NUMBER
Clear Matte Anodized	121825
Black Matte Anodized	121826

SML- SURFACE MOUNT BRACKET KIT, NON-ADJUSTABLE
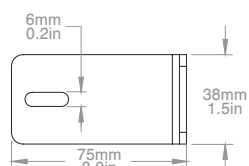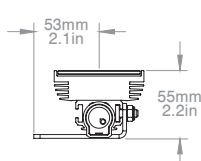
COLOR	PART NUMBER
Clear Matte Anodized	121140
Black Matte Anodized	121141

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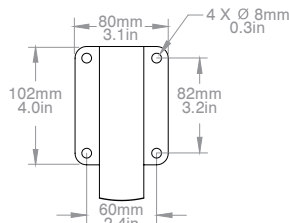**Monochromatic Linear Wall Washing and Grazing LED Lighting**

ORDERING LOGIC: STR9® MOUNTING ACCESSORIES

CLP - CLIP MOUNT KIT, NON-ADJUSTABLE
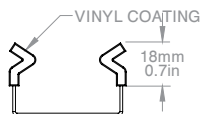
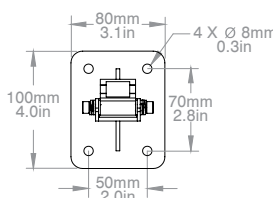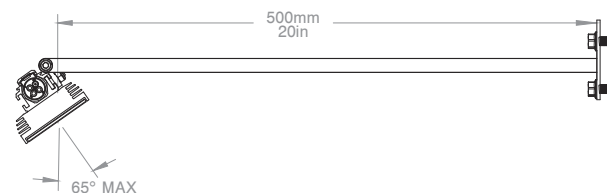| COLOR	PART NUMBER
Stainless Steel	121147

CTLX- ADJUSTABLE CANTILEVER BRACKET
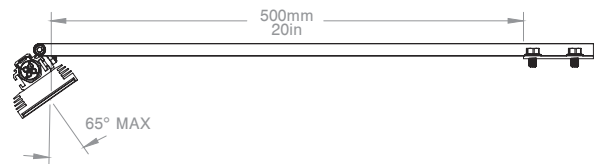
CTLH - HORIZONTAL MOUNTING BRACKET

COLOR	PART NUMBER
Clear Matte Anodized	121142
Black Matte Anodized	121143

CTLV - VERTICAL MOUNTING BRACKET

COLOR	PART NUMBER
Clear Matte Anodized	121144
Black Matte Anodized	121145

MCD - CANTILEVER BRACKET, NON-ADJUSTABLE
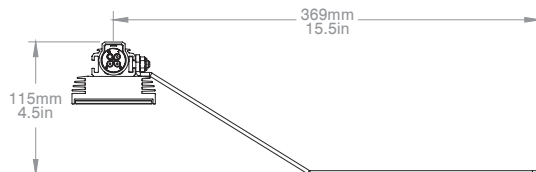
MCD

COLOR	PART NUMBER
Stainless Steel	121146

ORDERING LOGIC: COMMON COMPONENTS

INFINITY POWER SUPPLIES, 100-240V AC

PS-INF 3000

INPUT TYPE	PART NUMBER
Single-Phase	G20220
Two-Phase	G20221

PS-INF 6000

Single-Phase	G20212
Two-Phase	G20213

INFINITY POWER-DATA CONVERTORS

PDC-INF, INF+ZH, IP66

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**	**IP66** - Indoor/Outdoor
		100	320		
	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**	**IP66** - Indoor/Outdoor
		100	320	**DALI**			
	ELV48	240	480	**DMX**			
		320	640				

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ORDERING LOGIC: COMMON COMPONENTS

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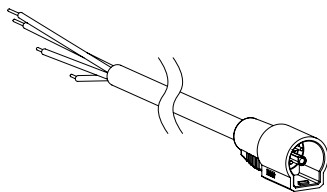
NOMINAL LENGTH	PART NUMBER
3m (10ft)	140723
9m (30ft)	140733
15m (50ft)	140724
CUSTOM	140732

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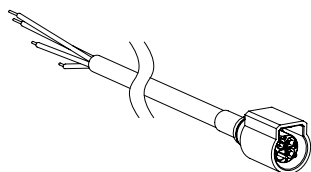
NOMINAL LENGTH	PART NUMBER
3m (10ft)	140725
9m (30ft)	140710
15m (50ft)	140726
CUSTOM	140727

STR9® JUMPER CABLE ELV
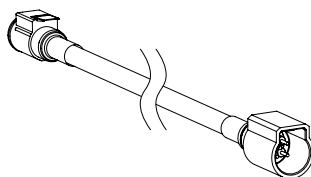
NOMINAL LENGTH	PART NUMBER
0.9m (3ft)	140729
1.8m (6ft)	140730
3.6m (12ft)	140731
CUSTOM	140728

STR9® JUMPER CABLE INF
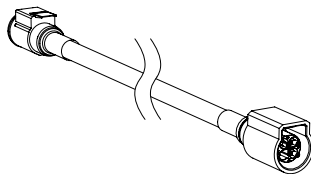
NOMINAL LENGTH	PART NUMBER
0.9m / 3ft	140709
1.8m / 6ft	140734
3.6m / 12ft	140735
CUSTOM	140708

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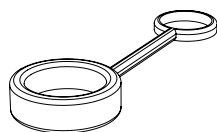
	PART NUMBER
STR9-INF	230855
STR-ELV	231182

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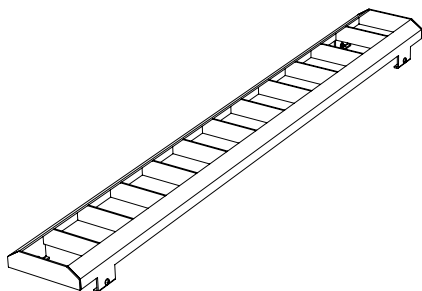
600mm LOUVER	
COLOR	PART NUMBER
White	120939
Black	120933
900mm LOUVER	
White	120940
Black	120934
1200mm LOUVER	
White	120941
Black	120935
1200mm LOUVER	
White	120942
Black	120936

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