TL50 Pro Tower Light



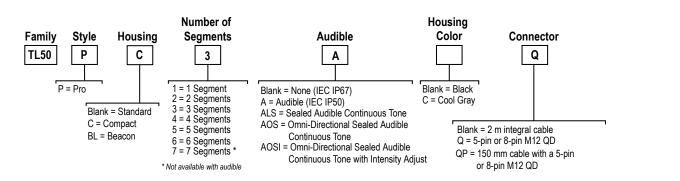
Datasheet

50 mm Programmable Multicolor RGB Tower Light



- Rugged, cost-effective, and easy-to-install multi-segment tower lights
- Programmable using Banner's Pro Editor software and Pro Converter Cable
 Illuminated segments provide easy-to-see operator guidance and indication of equipment status
- Up to 7 segments available
- Available in black or light gray housing to match different machine styles
- · Audible models available with standard, sealed, or omni-directional audible element
- Compact and beacon models are more intense in a smaller form factor compared to standard models
- 10 V DC to 30 V DC operation
- · Bimodal inputs (PNP/NPN), depending on source wiring

Models



TL50 Pro models without audible have a 5-pin M12 quick disconnect for one through four segments and have an 8-pin M12 quick disconnect for five to seven segments. Models with an audible segment have a 5-pin M12 quick disconnect for one through three segments and have an 8-pin M12 quick disconnect for four through six segments.

Configuration Instructions

Pro Editor

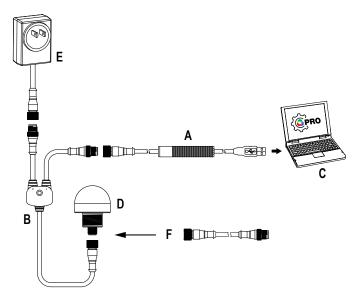


Use Banner's Pro Editor software and Pro Converter Cable to create custom configurations by selecting different colors, flash patterns, and animations. For more information visit www.bannerengineering.com/proeditor.



Full Preview Connection (Recommended)

The full preview connection must be used for the TL50 Pro Tower Light, the K90 Pro Indicator, and for Pro-series Strip Lights, and is optional but recommended for other Pro-series enabled devices.



- A = Pro Converter Cable (MQDC-506-USB) B = Splitter (CSB-M1251FM1251M)
- C = PC running Pro Editor software
- D = Any Banner Pro Series-enabled device (K50 shown)
- E = Power Supply (PSW-24-1 or PSD-24-4)
- F = 8-Pin to 5-Pin Double-Ended Cordset (MQDC-801-5M-PRO), required for 8-Pin models

Default Segment Colors

Number of Segments	Colors (Bottom to Top)	
1	Red	
2	Green, Red	
3	reen, Yellow, Red	
4	Blue, Green, Yellow, Red	
5	White, Blue, Green, Yellow, Red	
6	Orange, White, Blue, Green, Yellow, Red	
7	Magenta, Orange, White, Blue, Green, Yellow, Red	

S1 = Segment 1

white

gray

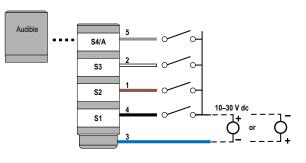
Segment 3

Segment 4/Audible

Wiring Diagrams

Note: All models are bimodal and can be wired as PNP or NPN devices.

5-pin/Wire Models



S1 = Segment 1 S2 = Segment 2 S3 = Segment 3 S4 = Segment 4 A = Audible				
Pin	Color	Segment Mode	Advanced Mode	
3 blue Common		Common	Common (PNP) or 10-30 V DC (NPN	
4 black Segment 1		Segment 1	Reset Input	
1	brown	Segment 2	10–30 V DC (PNP) or Common (NPN)	

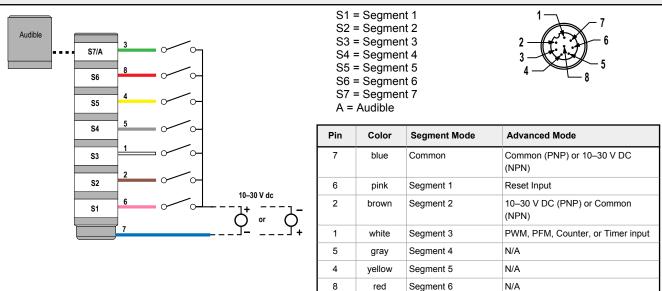
N/A

PWM, PFM, Counter, or Timer input

2

5

8-pin/Wire Models



Pro Editor Configuration for the TL50 Pro

Banner's Pro Editor software offers an easy way to configure Pro Series-enabled touch and indicator devices, allowing users full control of device states. The easy-to-use configuration software provides a variety of tools and capabilities to solve a wide range of applications. Pro Editor includes a preview mode that allows users to verify device performance before writing a configuration to a device. Configure any Pro Series-enabled device using the free Pro Editor software, available for download at www.bannerengineering.com/proeditor.

3

green

N/A

Segment 7/Audible

Segment Mode—Use Segment Mode to activate each segment and to control the input wire, color, animation, intensity, and speed. In **Segment Mode**, enable the Action Input to switch between Segment Mode and Run Mode (all segments) animations depending on wiring. The combination of the Action Input and the Segment input controls all tower light segments at once.

Segment Mode Animation	Description
Off	Segment is off
Steady	Color 1 is on at defined intensity
Flash	Color 1 flashes at defined speed, color intensity, and pattern (normal, strobe, three pulse, SOS, or random)
Two Color Flash	Color 1 and Color 2 flash alternately at defined speed, color intensities, and pattern (normal, strobe, three pulse, SOS, or random)
50/50	Color 1 is displayed on 50% of the segment and Color 2 is displayed on the other 50% of the segment at the defined color intensities
50/50 Rotate	Color 1 is displayed on 50% of the segment and Color 2 is displayed on the other 50% of the segment while rotating at the defined speed, color intensities, and rotational direction
Chase	Color 1 is displayed as a single spot against the background of Color 2 while rotating at the defined speed, color intensities, and rotational direction
Intensity Sweep	Color 1 repeatedly increases and decreases intensity between 0% to 100% at defined speed and color intensity

Run Mode—Use the TL50 Pro's Run Mode to control the entire tower light and to control the input wire, color, animation, intensity, and speed. Run Mode with a larger assigned run number overrides the lower assigned run numbers.

Run or Action Mode Animation	Description
Off	All tower light segments are off
Steady	Color 1 is solid on for every tower light segment at defined intensity
Flash	Color 1 flashes on every tower light segment at defined speed, color intensity, and pattern (normal, strobe, three pulse, SOS, or random)
Two Color Flash	Color 1 and Color 2 flash alternately on every segment at defined speed, color intensities, and pattern (normal, strobe, three pulse, SOS, or random)

Run or Action Mode Animation	Description
50/50	Color 1 is displayed on 50% of every segment and Color 2 is displayed on the other 50% of every segment at the defined color intensities and segment shift
50/50 Rotate	Color 1 is displayed on 50% of every segment and Color 2 is displayed on the other 50% of every segment while rotating at the defined speed, color intensities, rotational direction, and segment shift
Chase	Color 1 is displayed as a single spot against the background of Color 2 while rotating at the defined speed, color intensities, rotational direction, and segment shift
Intensity Sweep	Color 1 repeatedly increases and decreases intensity between 0% to 100% on every segment at defined speed and color intensity
Scroll	Color 1 fills two segments and those segments move in one direction up or down against the background of Color 2 at the defined speed, color intensities, and rotational direction
Bounce	Color 1 fills two segments and those segments move up and down between the top and bottom of the tower against the background of Color 2 at the defined speed, color intensities, and rotational direction
Color Spectrum	The tower light scrolls through the 14 predefined colors with a different color on each segment at the defined speed, Color 1 intensity, and rotational direction

Advanced Mode—Use Advanced Mode to set the value range, thresholds, colors, intensities, flash speeds, and animation types for PWM, PFM, Counter, and Timer control inputs.

Advanced Mode Parameters	Description	
	-III PULSE® PWM (Pulse Width Modulation): Apply a square wave signal to the PWM/PFM Input and vary the duty cycle from 0 to 100% to set value. The signal must use a constant frequency between 100 to 10,000 Hz.	
Control Type	-I PULSE® PFM (Pulse Frequency Modulation): Apply a square wave signal to the PWM/PFM Input and vary the frequency from 100 to 10,000 Hz to set the value. The signal must use a constant duty cycle from 10 to 90%.	
Control Type	Counter: Apply a single pulse to the Counter Input to change the value by 1. Apply a single pulse to the Reset Input to set the value to the starting value, if enabled. The pulse signal must last a minimum of 16 ms; the value changes on the leading edge.	
	Timer: Apply constant power to the tower to change the value by 1 every 1 second. Use a constant on or off signal on the Timer Run Input to start and pause the timer, respectively, if enabled. Apply a pulse to the Reset Input to set the value to the starting value, if enabled. The pulse signal must last a minimum of 16 ms; the value changes on the leading edge.	
Subsegment Style	If the value is a partial percentage of a segment, select if segment will be on steady or analog dimmed to the partial percentage	
Start From	Top: The value decreases from the maximum value Bottom: The value increases from the minimum value	
Reset Input	Apply a pulse signal to the Reset Input to set the value to the starting value, if enabled. The pulse signal must last a minimum of 16 ms.	
Threshold Dominance	Dominant: All segments display the active threshold color Non-Dominant: Segments display their defined threshold color	
Threshold Type: Background	A defined color and intensity is displayed on segments that are not active	
Threshold Type: Base	A defined animation state is displayed on segments that are not defined within a threshold	
Threshold Type	 ≤: The animation state is displayed on the segments that are less than or equal to the defined threshold ≥: The animation state is displayed on the segments that are greater than or equal to the defined threshold Disabled: The threshold is disabled 	

Global Parameters and Advanced Settings	Description
Orientation	Standard: The tower base is down
ononation	Upside Down: The tower base is up
Background Color	A defined color and intensity is displayed on segments that are not active
	On: Segment animations align when any input state changes
Animation Sync	Off: Segment animations will not be synchronized
Auto Restart	On: The counter and timer will reset to the starting value after reaching the end value
Auto Restart	Off: The counter and timer will stop at the ending value
Timer Run Input	Use a constant on or off signal on the Timer Run Input to start and to pause the timer, respectively, if enabled
	Smooths the input signal by varying the sample size
PFM/PWM Filter Level	Low: The sample size is short and changes to the input signal are more noticeable
	High: The sample size is long and changes to the input signal are less noticeable

Global Parameters and Advanced Settings	Description	
	Determines the signal value change needed to transition between thresholds and to prevent chatter	
Hysteresis	None: The value follows the input signal	
	High: A large value change is needed to transition between thresholds	

Specifications

Supply Voltage and Current

10 V DC to 30 V DC Maximum current per LED segment: 220 mA at 10 V DC 150 mA at 12 V DC 75 mA at 24 V DC 60 mA at 30 V DC

Maximum current for Standard Audible Alarm: 25 mA Maximum current for Omni-Directional Sealed Audible: 45 mA Maximum current for Sealed Audible Alarm: 35 mA

Supply Protection Circuitry

Protected against reverse polarity and transient voltages

Input Rating

Leakage Current Immunity: 400 uA Indicator On/Off Response Time: 250 ms (maximum) PWM Duty Cycle Range: 0 to 100% PFM Frequency Range: 100 to 10000 Hz

Connections

5-pin or 8-pin integral M12 quick disconnect; 2 m (6.5 ft) integral PVC cable; or a 150 mm (5.9 inch) PVC cable with a 5-pin or 8-pin M12 quick disconnect, depending on model

Models with a quick disconnect require a mating cordset

Construction

Bases and Covers: ABS Light Segment: Polycarbonate

Operating Conditions

Non-Audible: -40 °C to +50 °C (-40 °F to +122 °F) Standard and Audible Sealed: -20 °C to +50 °C (-4 °F to +122 °F) 95% at +50 °C maximum relative humidity (non-condensing)

Environmental Rating

NEMA/UL Type 13 Non-Audible and Sealed Audible: IP67 Standard Audible: IP50

Vibration and Mechanical Shock

Vibration: 10 Hz to 55 Hz, 1.0 mm peak-to-peak amplitude per IEC 60068-2-6

Shock: 30G 11 ms duration, half sine wave per IEC 60068-2-27

Certifications



Advanced Capabilities



Audible Adjustment

Standard Audible Alarm: Unscrew the cover (up to 1.5 turns maximum) to adjust the audible intensity. (Do not exceed 1.5 turns or the cover may detach during operation.) For maximum intensity, rotate the center plug 180° counterclockwise to remove it.

Sealed Audible Alarm and Omni-Directional Sealed Audible Alarm with Intensity Adjustment: Rotate the front cover until the desired intensity is reached

Omni-Directional Sealed Audible Alarm: No adjustment.

Audible Alarm

Standard Audible Alarm: 2.7 kHz ± 500 Hz oscillation frequency; maximum intensity 92 dB at 1 m (3.3 ft) (typical) Sealed Audible Alarm: 2.9 kHz ± 250 Hz oscillation frequency; maximum intensity 94 dB at 1 m (3.3 ft) (typical)

Omni-Directional Sealed Audible Alarm: 2.1 kHz ± 250 Hz oscillation frequency; maximum intensity 99 dB at 1 m (3.3 ft) (typical) Omni-Directional Sealed Audible Alarm with Intensity Adjustment: 2.1 kHz ± 250 Hz oscillation frequency; maximum intensity 95 dB at 1 m (3.3 ft) (typical)

Required Overcurrent Protection



WARNING: Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

Overcurrent protection is required to be provided by end product application overcurrent protection may be provided with external fusing or via Current

Limiting, Class 2 Power Supply

Supply wiring leads < 24 AWG shall not be spliced.

For additional product support, go to www.bannerengineering.com

Supply Wiring (AWG)	Required Overcurrent Protection (Amps)
20	5.0
22	3.0
24	2.0
26	1.0
28	0.8
30	0.5

Indicator Characteristics

Color	Dominant Wavelength (nm) or Color Temperature (CCT)	Color Coordinates 1		Lumen Output Per Segment (Typical at 25 °C)		
		х	Y	Standard	Compact	Beacon
Red	620	0.689	0.309	7.2	6.3	9.8
Green	522	0.154	0.700	17.5	14.1	21.8
Yellow	576	0.477	0.493	23.8	18.9	29.2
Blue	466	0.140	0.054	3.4	2.5	4.1
Magenta	_	0.379	0.172	10.4	8.3	12.6
Cyan	493	0.170	0.340	19.2	14.9	22.9
White	5700 K	0.328	0.337	24.8	19.5	29.9
Amber	589	0.556	0.420	15.3	12.3	19.2
Rose	_	0.515	0.220	8.2	6.7	10.1
Lime Green	562	0.388	0.561	21.2	16.8	25.9
Orange	599	0.616	0.370	11.3	9.3	14.5
Sky Blue	486	0.155	0.247	20.1	15.6	24.0
Violet	_	0.217	0.089	6.6	5.1	8.0
Spring Green	508	0.177	0.536	18.2	14.2	21.9

Dimensions

All measurements are listed in millimeters [inches], unless noted otherwise.

Figure 1. Standard Model Dimensions

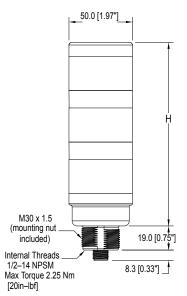
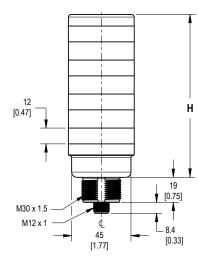


Table 1: Standard Models

# of Segments	Non-Audible	Standard Audible	Sealed Audible	Omni- Directional Sealed Audible
1	61.2 (2.4)	92 (3.6)	115.1 (4.5)	129.1 (5.1)
2	101.9 (4)	132.7 (5.2)	155.8 (6.1)	169 (6.7)
3	142.6 (5.6)	173.4 (6.8)	196.5 (7.7)	210.5 (8.3)
4	183.3 (7.2)	214.1 (8.4)	237.2 (9.3)	251.2 (9.9)
5	224 (8.8)	254.8 (10)	277.9 (10.9)	291.9 (11.5)
6	264.7 (10.4)	295.5 (11.6)	318.6 (12.5)	332.6 (13.1)
7	305.4 (12)	336.2 (13.2)	359.3 (14.1)	373.3 (14.7)

¹ Refer to CIE 1931 chromaticity diagram or color chart to show equivalent color with indicated color coordinates

Figure 2. Compact and Beacon Model Dimensions



# of Segments	Non-Audible	Standard Audible	Sealed Audible	Omni- Directional Sealed Audible
1	46.2 (1.9)	77.1 (3.1)	110.2 (4)	114.2 (4.5)
2	72 (2.9)	102.9 (4.1)	126 (5)	140 (5.5)
3	97.8 (123.6)	128.7 (5.1)	151.8 (6)	165.8 (6.5)
4	123.6 (4.9)	154.5 (6.1)	177.6 (7)	191.6 (7.5)
5	149.4 (5.9)	180.3 (7.1)	203.4 (8)	217.4 (8.5)
6	175.2 (6.9)	206.1 (8.1)	229.2 (9)	243.2 (9.5)
7	201 (7.9)	231.9 (9.1)	255 (10)	269 (10.5)

Accessories

Pro Editor Hardware

 MQDC-506-USB Pro Converter Cable 1.83 m (6 ft) length 5-pin M12 quick disconnect to Device and USB to PC Required for connection to Pro Editor 	 CSB-M1251FM1251M 5-pin parallel Y splitter (Male-Male-Female) For full Pro Editor preview capability Requires external power supply, sold separately
 PSW-24-1 24 V DC, 1 A power supply 2 m (6.5 ft) PVC cable with M12 quick disconnect Provides external power with splitter cable, sold separately 	 ACC-PRO-CABLE5 Mating accessory for cabled and terminal models 150 mm (6 inch) PVC cable with M12 quick disconnect Lever wire nuts included (qty 5) Required to connect cabled models and screw terminal models to Pro Converter Cable, sold separately
 MQDC-801-5M-PRO 8-pin to 5-pin double-ended cordset 0.31 m (1 ft) PVC cable with M12 quick disconnects Required to connect 8-pin Pro Series-enabled devices to Pro Converter Cable (MQDC-506-USB), sold separately 	

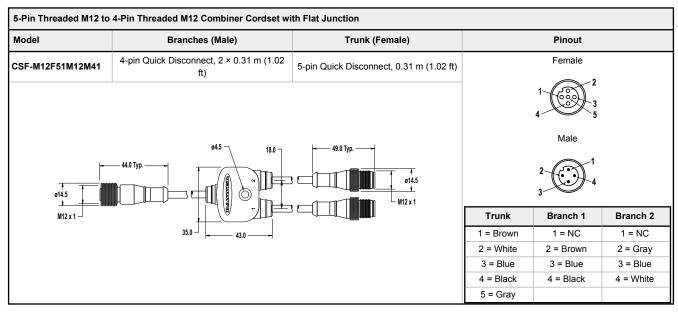
Table 2: Compact and Beacon Models

Cordsets

5-Pin Threaded M12 Cordsets—Single Ended					
Model	Pinout (Female)				
MQDC1-501.5	0.5 m (1.5 ft)		44 Typ. ————————————————————————————————————		
MQDC1-506	2 m (6.5 ft)				
MQDC1-515	5 m (16.4 ft)	Straight			
MQDC1-530	9 m (29.5 ft)		M12 x 1 → ø 14.5 →	1 2	
MQDC1-506RA	2 m (6.5 ft)				
MQDC1-515RA	5 m (16.4 ft)		32 Тур.	4 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray	
MQDC1-530RA	9 m (29.5 ft)	Right-Angle	M12 x 1 + + + + + + + + + + + + + + + + + +		

8-Pin Threaded M12 Cordsets with Open-Shield—Single Ended					
Model	Length	Dimensions	Pinout (Female)		
MQDC2S-806	2.04 m (6.7 ft)				
MQDC2S-815	5.04 m (16.54 ft)		44 Typ		
MQDC2S-830	10.04 m (32.95 ft)				
MQDC2S-850	16 m (52.49 ft)	Straight	M12 x 1	$\begin{array}{c}2\\1\\7\\7\\\end{array}$	
MQDC2S-806RA	2 m (6.56 ft)			6-2-5	
MQDC2S-815RA	5 m (16.4 ft)		32 Typ	1 = White 2 = Brown	
MQDC2S-830RA	10 m (32.81 ft)				
MQDC2S-850RA	16 m (52.49 ft)	Right-Angle	M12 x 1 +	3 = Green 4 = Yellow 5 = Gray 6 = Pink 7 = Blue 8 = Red	

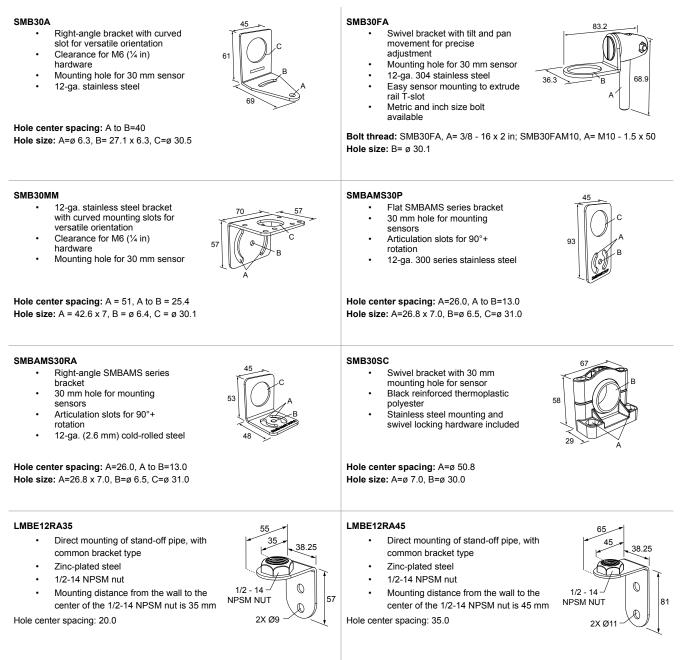
Splitter Cables for Use with IO-Blocks



8-Pin Threaded M12 to 4-Pin Threaded M12 Combiner Cordset with Flat Junction							
Model	Pinout						
CSF3A-M12F81M12M414-pin M12 Quick Disconnect, 3 × 0.3 m (0.98 ft)8-pin M12 Quick Disconnect, 0.3 m (0.98 ft)			Female				
					7 6 Male	2-5 8	
			2 3 Trunk Branch 1 Branch 2 Branch				Branch 3
			1	White	NC	NC	NC
\sim	M12 x 1		2	Brown	Brown	Gray	Red
		M12 x 1 (3X) —	3	Green	Blue	Blue	Blue
			4	Yellow	Pink	White	Yellow
			5	Gray			
			6	Pink			
			7	Blue			

Mounting Brackets

All measurements are listed in millimeters [inches], unless noted otherwise.



LMB Sealed Right-Angle Bracket

Model	Description	Construction	
LMB30RA		Black polycarbonate	
LMB30RAC	Direct-Mount Models: Bracket kit with base, 30 mm adapter, set screw, fasteners, O-rings, and gaskets.	Gray polycarbonate	
LMBE12RA	Pipe-Mount Models: Bracket kit with base, 1/2-14 pipe	Black polycarbonate	Q
LMBE12RAC	adapter, set screw, fasteners, O-rings, and gaskets. For use with stand-off pipe (listed and sold separately).	Gray polycarbonate	

Elevated Mount System

Model			Features	Components
SA-M30TE12 - Black Acetal SA-M30TE12C - White UHMW			 Streamlined black acetal or white UHMW stand-off pipe adapter/cover Connects between 30 mm light base and ½ in. NPSM/ DN15 pipe Mounting hardware included 	
Polished 304 Stainless Steel	Black Anodized Aluminum	Clear Anodized Aluminum		
SOP-E12-150SS 150 mm (6 in) long	SOP-E12-150A 150 mm (6 in) long	SOP-E12-150AC 150 mm (6 in) long	 Elevated-use stand-off pipe (½ in. NPSM/DN15) Polished 304 stainless steel, black anodized 	
SOP-E12-300SS 300 mm (12 in) long	SOP-E12-300A 300 mm (12 in) long	SOP-E12-300AC 300 mm (12 in) long	 aluminum, or clear anodized aluminum surface ½ in. NPT thread at both ends Compatible with most industrial environments 	
SOP-E12-900SS 900 mm (36 in) long	SOP-E12-900A 900 mm (36 in) long	SOP-E12-900AC 900 mm (36 in) long		Ť
SA-E12M30 - Black Acetal SA-E12M30C - White UHMW			 Streamlined black acetal or white UHMW mounting base adapter/cover Connects between ½ in. NPSM/DN15 pipe and 30 mm (1-3/16 in) drilled hole Mounting hardware included 	

Pipe Mounting Flange

Pipe Mounting Flange				
Model	Features	Construction		
SA-F12	 Elevated-use stand-off pipes (½ in, NPSM/DN15) M5 mounting hardware and nitrile gasket included 	Die-cast zinc base with black paint	1/2-14 NPSM 101 4x ø5.5 ø28 ø70	
SA-F12-3	 Elevated-use stand-off pipes (½ in, NPSM/DN15) M4 mounting hardware and nitrile blend gasket included 	Black Polycarbonate	12-14 NPSM 20 12-14 NPSM 21 120 21 120 00 00 00	

Foldable Mounting Brackets

Foldable Mounting Brackets					
Model	Features	Construction			
SA-FFB12		Black polycarbonate	1/2-14 NPSM		
SA-FFB12C	 For use with 1/2 inch stand-off pipes Stainless steel hardware 	Gray polycarbonate			

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For patent information, see www.bannerengineering.com/patents.

FCC Part 15 and CAN ICES-3 (B)/NMB-3(B)

This device complies with part 15 of the FCC Rules and CAN ICES-3 (B)/NMB-3(B). Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- 2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules and CAN ICES-3 (B)/NMB-3(B). These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the manufacturer.



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