TL50 Pro Tower Light

Features

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

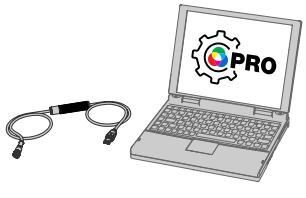
Family	Style	Housing	Number of Segments	Audible	Housing Color	Connector[1]
TL50	P	C	3	A		Q
	P = Pro	Blank = Standard C = Compact BL = Beacon	1 = 1 segment 2 = 2 segments 3 = 3 segments 4 = 4 segments 5 = 5 segments 6 = 6 segments 7 = 7 segments[2]	Blank = None (IP67) A = Audible (IP50) ALS = Sealed audible continuous tone AOS = Omni-directional sealed audible continuous tone AOSI = Omni-directional sealed audible continuous tone with intensity adjustment	Blank = Black C = Cool gray	Blank = 2 m (6.5 ft) integral PVC-jacketed cable Q = Integral 5-pin or 8-pin M12 male quick-disconnect connector QP = 150 mm (6 in) PVC-jacketed cable with a 5-pin or 8-pin M12 male quick-disconnect connector

Models without an audible have a 5-pin M12 male quick-disconnect connector for 1-4 segments, and have an 8-pin M12 male quick-disconnect connector for 5-7 segments.

Models with an audible have a 5-pin M12 male quick-disconnect connector for 1-3 segments, and have an 8-pin M12 male quick-disconnect connector for 4-6 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.

[1] Models with a quick-disconnect connector require a mating cordset.
[2] Not available with audible.

Original Instructions
07-Jul-25

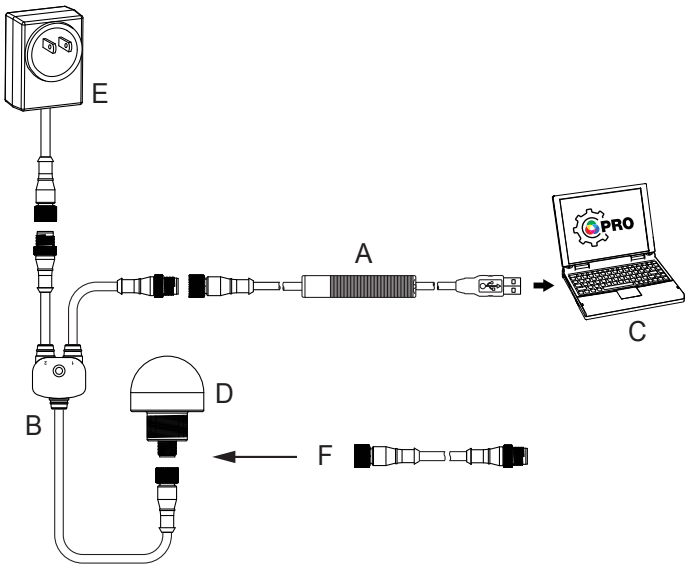
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209142
p/n: 209142 Rev. D

ПРОМЭЛЕКТРОНИКА/ sales@prom-elec.com

Full Preview Connection (Required)

The full preview connection must be used for the TL50 Pro Tower Light.



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, PSW-24-2, or PSD-24-4)
F = 8-Pin to 5-Pin Double-Ended Cordset (MQDC-801-5M-PRO), required for 8-Pin models

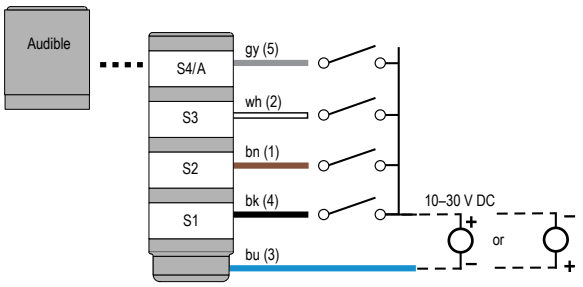
Default Segment Colors

Number of Segments	Colors (Bottom to Top)
1	Red
2	Green, Red
3	Green, 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

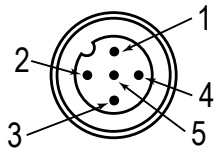
Wiring

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

5-pin/Wire Models



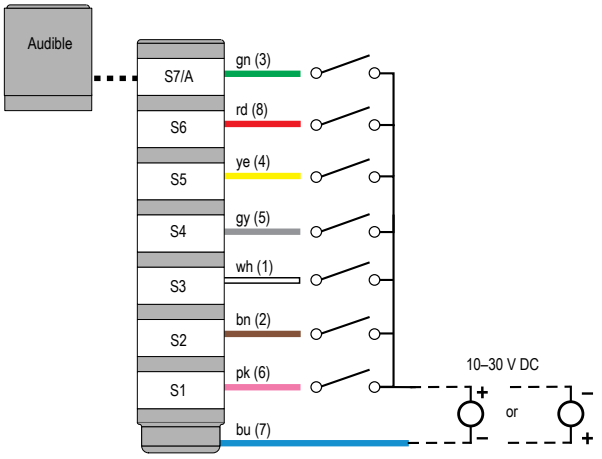
S1 = Segment 1
S2 = Segment 2
S3 = Segment 3
S4 = Segment 4
A = Audible



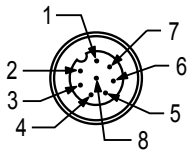
Pin	Color	Segment Mode	Advanced Mode
3	blue	Common	Common (PNP) or 10 V DC to 30 V DC (NPN)
4	black	Segment 1	Reset Input
1	brown	Segment 2	10 V DC to 30 V DC (PNP) or Common (NPN)
2	white	Segment 3	PWM, PFM, Counter, or Timer input
5	gray	Segment 4/Audible	N/A

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8-pin/Wire Models



S1 = Segment 1
S2 = Segment 2
S3 = Segment 3
S4 = Segment 4
S5 = Segment 5
S6 = Segment 6
S7 = Segment 7
A = Audible



Pin	Color	Segment Mode	Advanced Mode
7	blue	Common	Common (PNP) or 10 V DC to 30 V DC (NPN)
6	pink	Segment 1	Reset Input
2	brown	Segment 2	10 V DC to 30 V DC (PNP) or Common (NPN)
1	white	Segment 3	PWM, PFM, Counter, or Timer input
5	gray	Segment 4	N/A
4	yellow	Segment 5	N/A
8	red	Segment 6	N/A
3	green	Segment 7/Audible	N/A

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.

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)

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Run or Action Mode Animation	Description
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)
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
Control Type	PULSE® PRO I/O 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.
	PULSE® PRO I/O 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%.
	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 Upside Down: The tower base is up
Background Color	A defined color and intensity is displayed on segments that are not active
Animation Sync	On: Segment animations align when any input state changes 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 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
PFM/PWM Filter Level	Smooths the input signal by varying the sample size 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

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Global Parameters and Advanced Settings	Description
Hysteresis	Determines the signal value change needed to transition between thresholds and to prevent chatter 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

Integral 5-pin or 8-pin M12 male quick-disconnect connector,2 m (6.5 ft) integral PVC-jacketed cable, or 150 mm (6 in) PVC-jacketed cable with a 5-pin or 8-pin M12 male quick-disconnect connector, depending on model

Models with a quick-disconnect connector 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

Banner Engineering BV
Park Lane, Culliganlaan 2F bus 3
1831 Diegem, BELGIUM

c UL us LISTED

Advanced Capabilities

PULSE® PRO I/O

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 per the supplied table.

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

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Indicator Characteristics

Color	Dominant Wavelength (nm) or Color Temperature (CCT)	Color Coordinates[3]		Lumen Output Per Segment (Typical at 25 °C)		
		X	Y	Standard	Compact	Beacon
Red	620	0.689	0.309	7.2	6.3	9.8
Green	522	0.154	0.7	17.5	14.1	21.8
Yellow	576	0.477	0.493	23.8	18.9	29.2
Blue	466	0.14	0.054	3.4	2.5	4.1
Magenta	–	0.379	0.172	10.4	8.3	12.6
Cyan	493	0.17	0.34	19.2	14.9	22.9
White	5700 K	0.328	0.337	24.8	19.5	29.9
Amber	589	0.556	0.42	15.3	12.3	19.2
Rose	–	0.515	0.22	8.2	6.7	10.1
Lime Green	562	0.388	0.561	21.2	16.8	25.9
Orange	599	0.616	0.37	11.3	9.3	14.5
Sky Blue	486	0.155	0.247	20.1	15.6	24
Violet	–	0.217	0.089	6.6	5.1	8
Spring Green	508	0.177	0.536	18.2	14.2	21.9

FCC Part 15 Class B for Unintentional Radiators

(Part 15.105(b)) 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. 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 dealer or an experienced radio/TV technician for help.

(Part 15.21) Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Industry Canada ICES-003(B)

This device complies with 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.

Cet appareil est conforme à la norme NMB-3(B). Le fonctionnement est soumis aux deux conditions suivantes : (1) ce dispositif ne peut pas occasionner d'interférences, et (2) il doit tolérer toute interférence, y compris celles susceptibles de provoquer un fonctionnement non souhaité du dispositif.

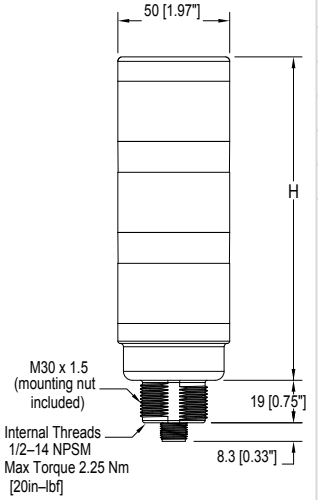
[3] Refer to CIE 1931 chromaticity diagram or color chart to show equivalent color with indicated color coordinates

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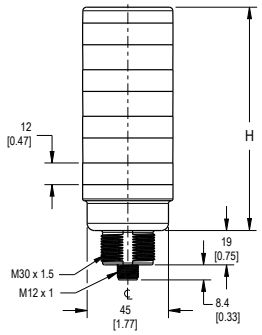
Dimensions

All measurements are listed in millimeters [inches], unless noted otherwise. The measurements provided are subject to change.

Standard Models

Dimensions	# of Segments	Tower Height (H)			
		Non-Audible	Standard Audible	Sealed Audible	Omni-Directional Sealed Audible
	1	61.2 mm (2.4 in)	92 mm (3.6 in)	115.1 mm (4.5 in)	129.1 mm (5.1 in)
	2	101.9 mm (4 in)	132.7 mm (5.2 in)	155.8 mm (6.1 in)	169 mm (6.7 in)
	3	142.6 mm (5.6 in)	173.4 mm (6.8 in)	196.5 mm (7.7 in)	210.5 mm (8.3 in)
	4	183.3 mm (7.2 in)	214.1 mm (8.4 in)	237.2 mm (9.3 in)	251.2 mm (9.9 in)
	5	224 mm (8.8 in)	254.8 mm (10 in)	277.9 mm (10.9 in)	291.1 mm (11.5 in)
	6	264.7 mm (10.4 in)	295.5 mm (11.6 in)	318.6 mm (12.5 in)	332.6 mm (13.1 in)
	7	305.4 mm (12 in)	336.2 mm (13.2 in)	359.3 mm (14.1 in)	373.3 mm (14.7 in)

Compact and Beacon Models

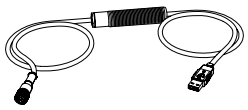
Dimensions	# of Segments	Tower Height (H)			
		Non-Audible	Standard Audible	Sealed Audible	Omni-Directional Sealed Audible
	1	46.2 mm (1.9 in)	77.1 mm (3.1 in)	110.2 mm (4 in)	114.2 (4.5 in)
	2	72 mm (2.9 in)	102.9 mm (4.1 in)	126 mm (5 in)	140 mm (5.5 in)
	3	97.8 mm (3.9 in)	128.7 mm (5.1 in)	151.8 mm (6 in)	165.8 mm (6.5 in)
	4	123.6 mm (4.9 in)	154.5 mm (6.1 mm)	177.6 mm (7 in)	191.6 mm (7.5 in)
	5	149.4 mm (5.9 in)	180.3 mm (7.1 in)	203.4 mm (8 in)	217.4 mm (8.5 in)
	6	175.2 mm (6.9 in)	206.1 mm (8.1 in)	229.2 (9 in)	243.2 (9.5 in)
	7	201 mm (7.9 in)	231.9 mm (9.1 in)	255 mm (10 in)	269 mm (10.5 in)

Accessories

Pro Editor Hardware

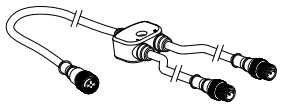
MQDC-506-USB

- Pro Converter Cable
- 1.83 m (6 ft) length 5-pin M12 quick disconnect to Device and USB to PC
- Required for connection to the configuration software



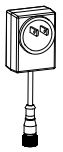
CSB-M1251FM1251M

- 5-pin parallel Y splitter (Male-Male-Female)
- For full Pro Editor preview capability
- Requires external power supply, sold separately

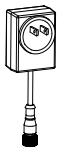


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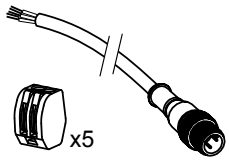
PSW-24-1
- 24 V DC, 1 A power supply
- 2 m (6.5 ft) PVC cable with M12 quick disconnect
- Provides external power with splitter cable, sold separately



PSW-24-2
- 24 V DC, 2 A power supply
- 3.5 m (11.5 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

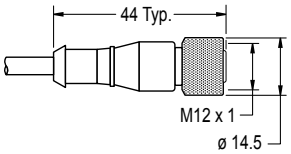
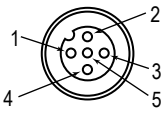
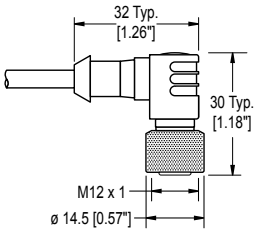


MQDC-801-5M-PRO
- 8-pin to 5-pin double-ended cordset
- 0.31 m (1 ft) PVC cable with M12 quick disconnects
- Required to connect 8-pin Pro Series-enabled devices to Pro Converter Cable (MQDC-506-USB), sold separately

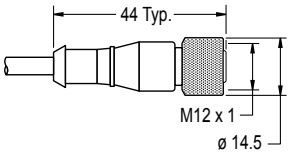
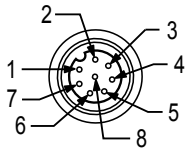
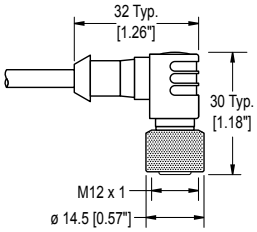


Cordsets

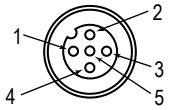
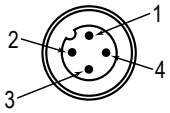
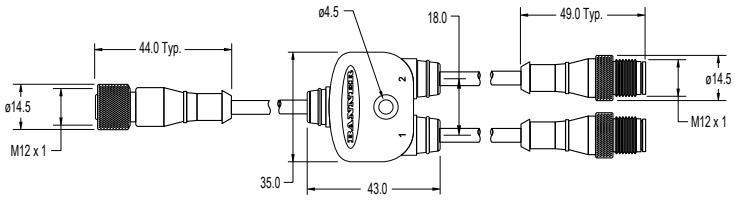
5-Pin Single-Ended M12 Female Cordsets

Model	Length	Style	Dimensions	Pinout (Female)
MQDC1-501.5	0.5 m (1.5 ft)	Straight		 1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray
MQDC1-503	0.9 m (2.9 ft)			
MQDC1-506	2 m (6.5 ft)			
MQDC1-515	5 m (16.4 ft)			
MQDC1-530	9 m (29.5 ft)			
MQDC1-560	18 m (59 ft)			
MQDC1-5100	31 m (101.7 ft)			
MQDC1-506RA	2 m (6.5 ft)	Right-Angle		
MQDC1-515RA	5 m (16.4 ft)			
MQDC1-530RA	9 m (29.5 ft)			
MQDC1-560RA	19 m (62.3 ft)			

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8-Pin Single-Ended M12 Female Open-Shielded Cordsets				
Model	**Length**	**Style**	**Dimensions**	**Pinout (Female)**
MQDC2S-806	2.04 m (6.7 ft)	Straight		 1 = White 2 = Brown 3 = Green 4 = Yellow 5 = Gray 6 = Pink 7 = Blue 8 = Red
MQDC2S-815	5.04 m (16.54 ft)			
MQDC2S-830	10.04 m (32.95 ft)			
MQDC2S-850	16 m (52.49 ft)			
MQDC2S-806RA	2 m (6.56 ft)	Right-Angle		
MQDC2S-815RA	5 m (16.4 ft)			
MQDC2S-830RA	10 m (32.81 ft)			
MQDC2S-850RA	16 m (52.49 ft)			

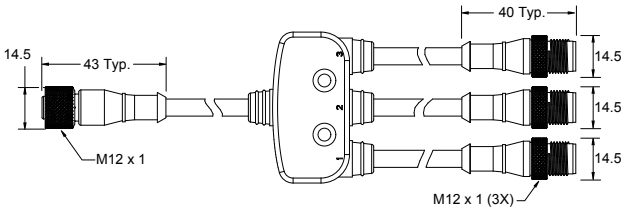
Splitter Cables for Use with IO-Blocks

5-Pin M12 to 4-Pin M12 Combiner Cordset with Flat Junction			
Model	**Branches (Male)**	**Trunk (Female)**	**Pinout**
CSF-M12F51M12M41	4-pin Quick Disconnect, 2 × 0.31 m (1.02 ft)	5-pin Quick Disconnect, 0.31 m (1.02 ft)	Female  Male  1 = brown (trunk); no connection (branches 1 and 2) 2 = white (trunk); brown (branch 1); gray (branch 2) 3 = blue (trunk; branches 1 and 2) 4 = black (trunk); black (branch 1); white (branch 2) 5 = gray (trunk only)
			

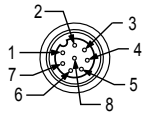
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8-Pin M12 Female to 4-Pin M12 Male Combiner Flat Junction Splitter Cordsets

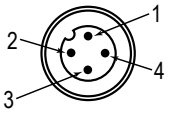
Model	Branches (Male)	Trunk (Female)
CSF3A-M12F81M12M41	4-pin M12 Quick Disconnect, 3 × 0.3 m (0.98 ft)	8-pin M12 Quick Disconnect, 0.3 m (0.98 ft)



Female



Male



	Trunk	Branch 1	Branch 2	Branch 3
1	White	NC	NC	NC
2	Brown	Brown	Gray	Red
3	Green	Blue	Blue	Blue
4	Yellow	Pink	White	Yellow
5	Gray			
6	Pink			
7	Blue			
8	Red			

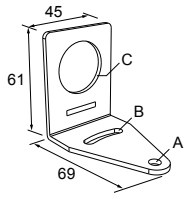
Mounting Brackets

All measurements are listed in millimeters [inches], unless noted otherwise. The measurements provided are subject to change.

SMB30A

- Right-angle bracket with curved slot for versatile orientation
- Clearance for M6 (¼ in) hardware
- Mounting hole for 30 mm sensor
- 12-gauge stainless steel

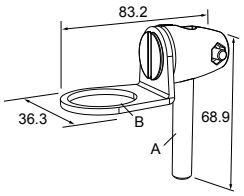
Hole center spacing: A to B=40
Hole size: A=ø 6.3, B= 27.1 × 6.3, C=ø 30.5



SMB30FA

- Swivel bracket with tilt and pan movement for precise adjustment
- Mounting hole for 30 mm sensor
- 12-gauge 304 stainless steel
- Easy sensor mounting to extrude rail T-slot
- Metric- and inch-size bolt available

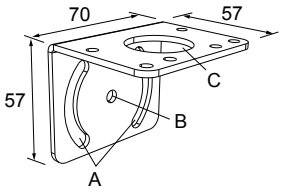
Bolt thread: SMB30FA, A= 3/8 - 16 × 2 in; SMB30FAM10, A= M10 - 1.5 × 50
Hole size: B= ø 30.1



SMB30MM

- 12-gauge stainless steel bracket with curved mounting slots for versatile orientation
- Clearance for M6 (¼ in) hardware
- Mounting hole for 30 mm sensor

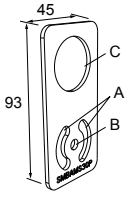
Hole center spacing: A = 51, A to B = 25.4
Hole size: A = 42.6 × 7, B = ø 6.4, C = ø 30.1



SMBAMS30P

- Flat SMBAMS series bracket
- 30 mm hole for mounting sensors
- Articulation slots for 90°+ rotation
- 12-gauge 300 series stainless steel

Hole center spacing: A=26.0, A to B=13.0
Hole size: A=26.8 × 7.0, B=ø 6.5, C=ø 31.0

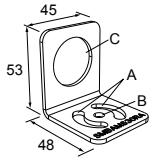


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SMBAMS30RA

- Right-angle SMBAMS series bracket
- 30 mm hole for mounting sensors
- Articulation slots for 90°+ rotation
- 12-gauge (2.6 mm) cold-rolled steel

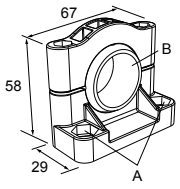
Hole center spacing: A=26.0, A to B=13.0
Hole size: A=26.8 × 7.0, B=ø 6.5, C=ø 31.0



SMB30SC

- Swivel bracket with 30 mm mounting hole for sensor
- Black reinforced thermoplastic polyester
- Stainless steel mounting and swivel locking hardware included

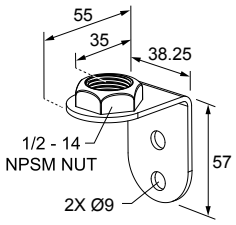
Hole center spacing: A=ø 50.8
Hole size: A=ø 7.0, B=ø 30.0



LMBE12RA35

- Direct mounting of stand-off pipe, with common bracket type
- Zinc-plated steel
- 1/2-14 NPSM nut
- Mounting distance from the wall to the center of the 1/2-14 NPSM nut is 35 mm

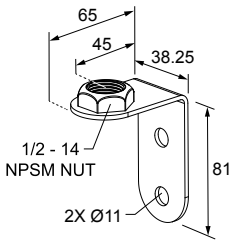
Hole center spacing: 20.0



LMBE12RA45

- Direct mounting of stand-off pipe, with common bracket type
- Zinc-plated steel
- 1/2-14 NPSM nut
- Mounting distance from the wall to the center of the 1/2-14 NPSM nut is 45 mm

Hole center spacing: 35.0



LMB Sealed Right-Angle Bracket

Model	Description	
LMB30RA - Black polycarbonate **LMB30RAC** - Gray polycarbonate	• **Direct-Mount Models** • Bracket kit with base, 30 mm adapter, set screw, fasteners, O-rings, and gaskets.	
LMBE12RA - Black polycarbonate **LMBE12RAC** - Gray polycarbonate	• **Pipe-Mount Models** • Bracket kit with base, ½-14 pipe adapter, set screw, fasteners, O-rings, and gaskets • For use with stand-off pipe (listed and sold separately)	

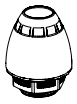
Elevated Mount System

Model	Description	Components
SA-M30TE12 - Black Acetal	• 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	
SA-M30TE12C - White UHMW		

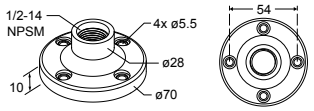
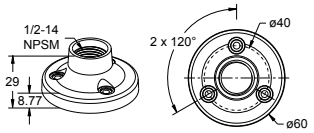
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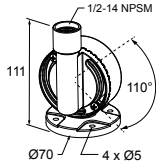
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Model			Description	Components
Polished 304 Stainless Steel	**Black Anodized Aluminum**	**Clear Anodized Aluminum**	• Elevated-use stand-off pipe (½ in. NPSM/DN15) • Polished 304 stainless steel, black anodized aluminum, or clear anodized aluminum surface • ½ in. NPT thread at both ends: one end screws into the internal threads of the light's base, and one end screws into the mounting base adapter/cover • Compatible with most industrial environments	
SOP-E12-150SS 150 mm (6 in) long	**SOP-E12-150A** 150 mm (6 in) long	**SOP-E12-150AC** 150 mm (6 in) long		
SOP-E12-300SS 300 mm (12 in) long	**SOP-E12-300A** 300 mm (12 in) long	**SOP-E12-300AC** 300 mm (12 in) long		
SOP-E12-900SS 900 mm (36 in) long	**SOP-E12-900A** 900 mm (36 in) long	**SOP-E12-900AC** 900 mm (36 in) long		
SA-E12M30 - Black Acetal			• 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	
SA-E12M30C - White UHMW				

Pipe Mounting Flange

Pipe Mounting Flange			
Model	**Description**	**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	
SA-F12-3	• Elevated-use stand-off pipes (½ in, NPSM/DN15) • M4 mounting hardware and nitrile blend gasket included	Black Polycarbonate	

Foldable Mounting Brackets

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

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