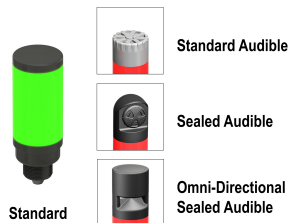


# CL50 Column Light



## Datasheet

Multi-Color General Purpose or Audible Indicators



- Rugged, cost-effective, and easy-to-install multi-color indicators
- Illumination provides easy-to-see operator guidance and equipment status indication
- 1-, 2-, or 3-color models available
- Available in black or light gray housing
- Audible models available with standard, sealed, or omni-directional audible element
- Continuous, pulsed, and staccato tones available
- 18 V to 30 V dc operation
- Compact devices are completely self-contained, no controller needed
- No assembly required

## Non-Audible Models

Models <sup>1</sup>	# of LED Colors	LED Colors <sup>2</sup>			Connection <sup>3</sup>	Inputs
		Color 1	Color 2	Color 3		
CL50GXXPQ	1	Green	-	-	Integral 4-pin M12/Euro-style quick disconnect	PNP
CL50GXXNQ		Green	-	-		NPN
CL50XRX PQ		-	Red	-		PNP
CL50XRXNQ		-	Red	-		NPN
CL50GRXPQ	2	Green	Red	-		PNP
CL50GRXNQ		Green	Red	-		NPN
CL50GRYPQ	3	Green	Red	Yellow		PNP
CL50GRYNQ		Green	Red	Yellow		NPN

## Audible Models

Standard Audible Models <sup>1</sup>	# of LED Colors	LED Colors <sup>2</sup>			Connection <sup>3</sup>	Inputs
		Color 1	Color 2	Color 3		
CL50GXXAPQ	1	Green	-	-	Integral 5-pin M12/Euro-style quick disconnect	PNP
CL50GXXANQ		Green	-	-		NPN
CL50XRXAPQ		-	Red	-		PNP
CL50XRXANQ		-	Red	-		NPN
CL50GRXPAPQ	2	Green	Red	-		PNP
CL50GRXANQ		Green	Red	-		NPN
CL50GRYPAPQ	3	Green	Red	Yellow		PNP
CL50GRYANQ		Green	Red	Yellow		NPN

Sealed Audible Models <sup>1</sup>			# of LED Colors	LED Colors <sup>2</sup>			Connection <sup>3</sup>	Inputs
Continuous	Pulsed at 1.6 Hz	Staccato		Color 1	Color 2	Color 3		
CL50GXXALSPQ	CL50GXXALS3PQ	CL50GXXALS4PQ	1	Green	-	-	Integral 5-pin M12/Euro-style quick disconnect	PNP
CL50GXXALSNQ	CL50GXXALS3NQ	CL50GXXALS4NQ		Green	-	-		NPN
CL50XRXALSPQ	CL50XRXALS3PQ	CL50XRXALS4PQ		-	Red	-		PNP
CL50XRXALSNQ	CL50XRXALS3NQ	CL50XRXALS4NQ		-	Red	-		NPN
CL50GRXALSPQ	CL50GRXALS3PQ	CL50GRXALS4PQ	2	Green	Red	-		PNP
CL50GRXALSNQ	CL50GRXALS3NQ	CL50GRXALS4NQ		Green	Red	-		NPN
CL50GRYALSPQ	CL50GRYALS3PQ	CL50GRYALS4PQ	3	Green	Red	Yellow		PNP

<sup>1</sup> Models with black housing are listed. For gray housing, add the suffix "C" at the end of the cabled model number or before the "Q" of quick disconnect model numbers. For example, CL50GXXAPC or CL50GXXAPCQ.

<sup>2</sup> Available colors include: Green (G), Red (R), Yellow (Y), Blue (B), and White (W). Contact Banner Engineering for other colors and color combinations.

<sup>3</sup>

- To order the 150 mm (6 in) PVC cable model with a M12/Euro-style quick disconnect, replace the suffix "Q" with "QP" in the model number. For example, CL50GXXAPQP.
- To order the 2 m (6.5 ft) PVC cable model, omit the suffix "Q" in the model number. For example, CL50GXXAP.
- Models with a quick disconnect require a mating cordset.



Sealed Audible Models <sup>1</sup>			# of LED Colors	LED Colors <sup>2</sup>			Connection <sup>3</sup>	Inputs
Continuous	Pulsed at 1.6 Hz	Staccato		Color 1	Color 2	Color 3		
CL50GRYALS <sub>NQ</sub>	CL50GRYALS <sub>3NQ</sub>	CL50GRYALS <sub>4NQ</sub>		Green	Red	Yellow		NPN

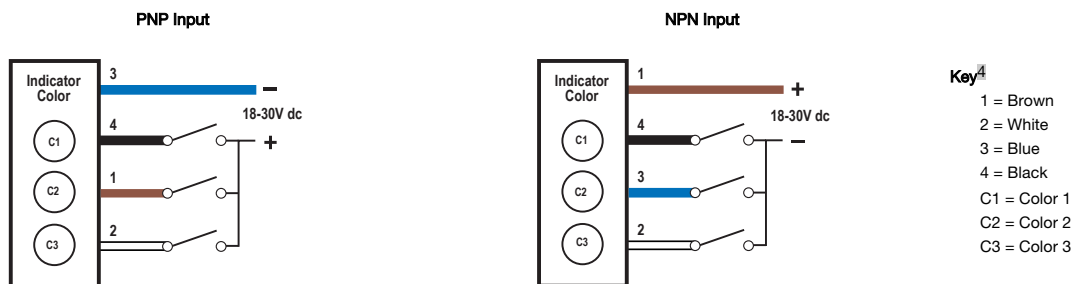
  

Omni-Directional Sealed Audible Models <sup>1</sup>			# of LED Colors	LED Colors <sup>2</sup>			Connection <sup>3</sup>	Inputs
Continuous	Pulsed at 1.6 Hz	Staccato		Color 1	Color 2	Color 3		
CL50GXXAOSPQ	CL50GXXAOS <sub>3PQ</sub>	CL50GXXAOS <sub>4PQ</sub>	1	Green	-	-	Integral 5-pin M12/Euro-style quick disconnect	PNP
CL50GXXAOS <sub>NQ</sub>	CL50GXXAOS <sub>3NQ</sub>	CL50GXXAOS <sub>4NQ</sub>		Green	-	-		NPN
CL50XRXAOSPQ	CL50XRXAOS <sub>3PQ</sub>	CL50XRXAOS <sub>4PQ</sub>		-	Red	-		PNP
CL50XRXAOS <sub>NQ</sub>	CL50XRXAOS <sub>3NQ</sub>	CL50XRXAOS <sub>4NQ</sub>		-	Red	-		NPN
CL50GRXAOSPQ	CL50GRXAOS <sub>3PQ</sub>	CL50GRXAOS <sub>4PQ</sub>	2	Green	Red	-		PNP
CL50GRXAOS <sub>NQ</sub>	CL50GRXAOS <sub>3NQ</sub>	CL50GRXAOS <sub>4NQ</sub>		Green	Red	-		NPN
CL50GRYAOSPQ	CL50GRYAOS <sub>3PQ</sub>	CL50GRYAOS <sub>4PQ</sub>	3	Green	Red	Yellow		PNP
CL50GRYAOS <sub>NQ</sub>	CL50GRYAOS <sub>3NQ</sub>	CL50GRYAOS <sub>4NQ</sub>		Green	Red	Yellow		NPN

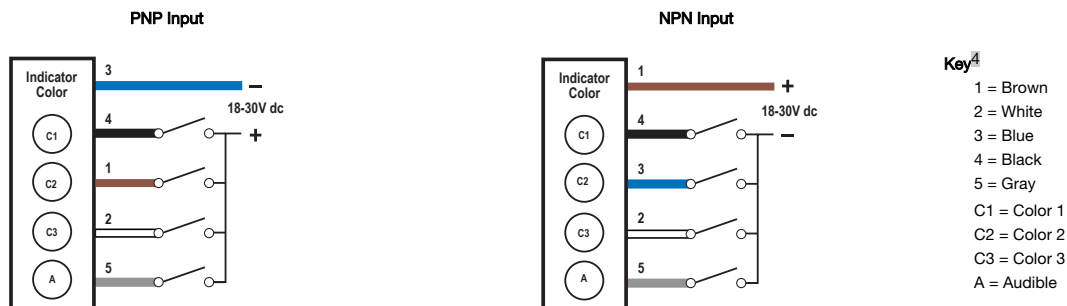
  

Omni-Directional Sealed Audible Models with Intensity Adjustment <sup>1</sup>			# of LED Colors	LED Colors <sup>2</sup>			Connection <sup>3</sup>	Inputs
Continuous	Pulsed at 1.6 Hz	Staccato		Color 1	Color 2	Color 3		
CL50GXXAOSIPQ	CL50GXXAOS <sub>3IPQ</sub>	CL50GXXAOS <sub>4IPQ</sub>	1	Green	-	-	Integral 5-pin M12/Euro-style quick disconnect	PNP
CL50GXXAOSINQ	CL50GXXAOS <sub>3INQ</sub>	CL50GXXAOS <sub>4INQ</sub>		Green	-	-		NPN
CL50XRXAOSIPQ	CL50XRXAOS <sub>3IPQ</sub>	CL50XRXAOS <sub>4IPQ</sub>		-	Red	-		PNP
CL50XRXAOSINQ	CL50XRXAOS <sub>3INQ</sub>	CL50XRXAOS <sub>4INQ</sub>		-	Red	-		NPN
CL50GRXAOSIPQ	CL50GRXAOS <sub>3IPQ</sub>	CL50GRXAOS <sub>4IPQ</sub>	2	Green	Red	-		PNP
CL50GRXAOSINQ	CL50GRXAOS <sub>3INQ</sub>	CL50GRXAOS <sub>4INQ</sub>		Green	Red	-		NPN
CL50GRYAOSIPQ	CL50GRYAOS <sub>3IPQ</sub>	CL50GRYAOS <sub>4IPQ</sub>	3	Green	Red	Yellow		PNP
CL50GRYAOSINQ	CL50GRYAOS <sub>3INQ</sub>	CL50GRYAOS <sub>4INQ</sub>		Green	Red	Yellow		NPN

## Wiring Diagrams — Non-Audible Models



## Wiring Diagrams — Audible Models



<sup>4</sup> If there is an "X" in the model number, the corresponding wire will not be used.

## Functional Truth Table: PNP Models

LED Function	Pin 4 (Black Wire)	Pin 1 (Brown Wire)	Pin 2 (White Wire)	
Color 1 On	+V dc			Pin 3 (blue wire) connected to ground (-). <b>Alarm models:</b> Alarm function is independent of light functions.
Color 2 On		+V dc		
Color 3 On			+V dc	
Color 3 On (color 3 inhibits color 1)	+V dc		+V dc	
Color 2 On (color 2 inhibits color 1)	+V dc	+V dc		
Color 3 On (color 3 inhibits color 2)		+V dc	+V dc	
Color 3 On (color 3 inhibits colors 1 & 2)	+V dc	+V dc	+V dc	

## Functional Truth Table: NPN Models

LED Function	Pin 4 (Black Wire)	Pin 3 (Blue Wire)	Pin 2 (White Wire)	
Color 1 On	-V dc			Pin 1 (brown wire) connected to +V dc. <b>Alarm models:</b> Alarm function is independent of light functions.
Color 2 On		-V dc		
Color 3 On			-V dc	
Color 3 On (color 3 inhibits color 1)	-V dc		-V dc	
Color 2 On (color 2 inhibits color 1)	-V dc	-V dc		
Color 3 On (color 3 inhibits color 2)		-V dc	-V dc	
Color 3 On (color 3 inhibits colors 1 & 2)	-V dc	-V dc	-V dc	

## Specifications

## Supply Voltage and Current

18 V dc to 30 V dc

Indicators—maximum current per LED color:

- 100 mA at 18 V dc
- 70 mA at 30 V dc

**Standard Audible Alarm:** 25 mA maximum current**Sealed Audible Alarm:** 35 mA maximum current**Omni-Directional Sealed Audible Alarm:** 45 mA maximum current

## Supply Protection Circuitry

Protected against reverse polarity and transient voltages

## Indicator Response Time

Indicator On/Off: 10 milliseconds maximum

## Audible Alarm

**Standard Audible Alarm:** 2.7 KHz  $\pm$  500 Hz oscillation frequency; maximum intensity 92 db at 1 meter (3.3 ft) (typical)**Sealed Audible Alarm:** 2.9 KHz  $\pm$  250 Hz oscillation frequency; maximum intensity 94 db at 1 meter (3.3 ft) (typical)**Omni-Directional Sealed Audible Alarm:** 2.1 KHz  $\pm$  250 Hz oscillation frequency; maximum intensity 99 db at 1m (3.3 ft) (typical)**Omni-Directional Sealed Audible Alarm with Intensity Adjustment:** 2.1 KHz  $\pm$  250 Hz oscillation frequency; maximum intensity 95 dB at 1m (3.3 ft) (typical)

## 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**Typical Reduction in Sound Intensity with Audible Adjustment (maximum to minimum):**

- **Standard Audible:** 30 dB
- **Sealed Audible:** 20 dB
- **Omni-Directional Sealed Audible:** 12 dB

## Construction

**Bases and Covers:** ABS**Light Segment:** Polycarbonate

## Vibration and Mechanical Shock

Meets IEC 60068-2-6 requirements (Vibration: 10 Hz to 55 Hz, 1.0 mm amplitude, 5 minutes sweep, 30 minutes dwell)

Meets IEC 60068-2-27 requirements (Shock: 30G 11 ms duration, half sine wave)

## Operating Conditions

**Non-Audible:** -40 °C to +50 °C (-40 °F to +122 °F)**Standard and Sealed Audible:** -20 °C to +50 °C (-4 °F to +122 °F)

95% at +50 °C maximum relative humidity (non-condensing)

## Environmental Rating

UL Type 4X Indoor and UL Type 13

**Non-Audible and Sealed Audible:** IEC IP67**Standard Audible:** IEC IP50

## Certifications



## Indicators

LEDs or audible are independently selected

## Indicator Characteristics

Color	Dominant Wavelength (nm) or Color Temperature (CCT)	Lumen Output (Typical at 25 °C)
Green	525 nm	72
Red	625 nm	38
Yellow	590 nm	30
Blue	475 nm	28
White	5000 K	85

## Connections

Integral 4-pin or 5-pin M12/Euro-style quick disconnect, 150 mm (6 in) PVC cable with a M12/Euro-style quick disconnect, or 2 m (6.5 ft) integral PVC cable, depending on model

Models with a quick disconnect require a mating cordset

## 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.

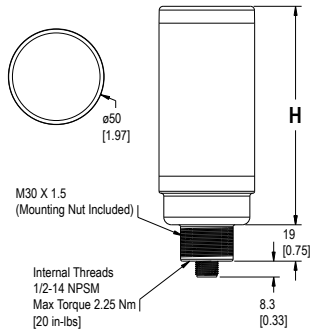
Overcurrent protection may be provided with external fusing or via Current Limiting, Class 2 Power Supply.

Supply wiring leads &lt; 24 AWG shall not be spliced.

For additional product support, go to [www.bannerengineering.com](http://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

## Dimensions

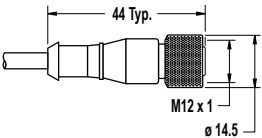
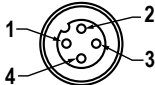
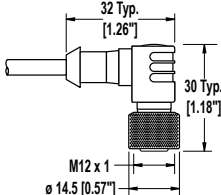


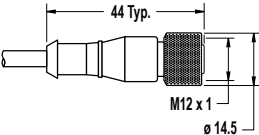
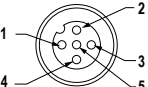
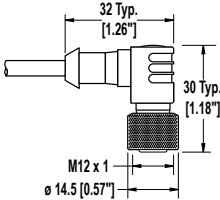
Column Light Height (H)	
<b>Non-Audible</b>	114.2mm (4.5 in)
<b>Standard Audible*</b>	145.3mm (5.7 in)
<b>Sealed Audible</b>	168.2mm (6.6 in)
<b>Omni-Directional Sealed Audible</b>	182.2mm (7.2 in)
*Column Light (H) with top unscrewed approximately 3.5 mm to allow sound to escape	

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

## Accessories

### Cordsets

4-Pin Threaded M12/Euro-Style Cordsets—Single Ended				
Model	Length	Style	Dimensions	Pinout (Female)
MQDC-406	1.83 m (6 ft)	Straight		  1 = Brown 2 = White 3 = Blue 4 = Black
MQDC-415	4.57 m (15 ft)			
MQDC-430	9.14 m (30 ft)			
MQDC-450	15.2 m (50 ft)	Right-Angle		
MQDC-406RA	1.83 m (6 ft)			
MQDC-415RA	4.57 m (15 ft)			
MQDC-430RA	9.14 m (30 ft)			
MQDC-450RA	15.2 m (50 ft)			

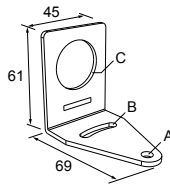
5-Pin Threaded M12/Euro-Style Cordsets—Single Ended					
Model	Length	Style	Dimensions	Pinout (Female)	
MQDC1-501.5	0.50 m (1.5 ft)	Straight		 <p>1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray</p>	
MQDC1-506	1.83 m (6 ft)				
MQDC1-515	4.57 m (15 ft)				
MQDC1-530	9.14 m (30 ft)	Right-Angle			
MQDC1-506RA	1.83 m (6 ft)				
MQDC1-515RA	4.57 m (15 ft)				
MQDC1-530RA	9.14 m (30 ft)				

## Mounting Brackets

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

### SMB30A

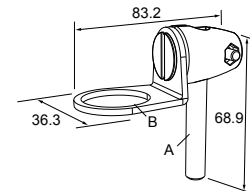
- Right-angle bracket with curved slot for versatile orientation
- Clearance for M6 (¼ in) hardware
- Mounting hole for 30 mm sensor
- 12-ga. stainless steel



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

### SMB30FA

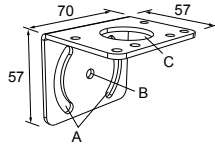
- Swivel bracket with tilt and pan movement for precise adjustment
- Mounting hole for 30 mm sensor
- 12-ga. 304 stainless steel
- Easy sensor mounting to extrude rail T-slot
- Metric and inch size bolt available



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

### SMB30MM

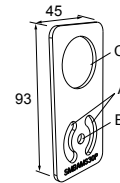
- 12-ga. stainless steel bracket with curved mounting slots for versatile orientation
- Clearance for M6 (¼ in) hardware
- Mounting hole for 30 mm sensor



**Hole center spacing:** A = 51, A to B = 25.4  
**Hole size:** A = 42.6 x 7, B = ø 6.4, C = ø 31.0

### SMBAMS30P

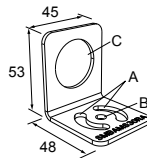
- Flat SMBAMS series bracket
- 30 mm hole for mounting sensors
- Articulation slots for 90°+ rotation
- 12-ga. 300 series stainless steel



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

### SMBAMS30RA

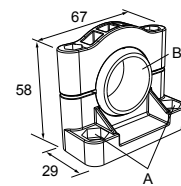
- Right-angle SMBAMS series bracket
- 30 mm hole for mounting sensors
- Articulation slots for 90°+ rotation
- 12-ga. (2.6 mm) cold-rolled steel



**Hole center spacing:** A=26.0, A to B=13.0  
**Hole size:** A=26.8 x 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

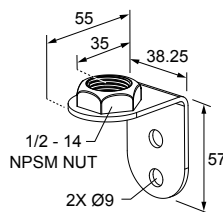


**Hole center spacing:** A=ø 50.8  
**Hole size:** A=ø 7.0, B=ø 30.0

### 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

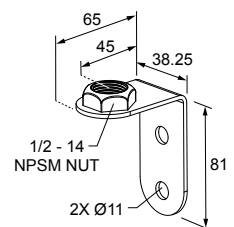
Hole center spacing: 20.0



### 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


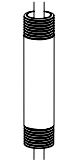

Hole center spacing: 35.0



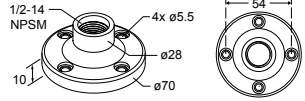
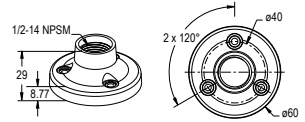
## LMB Sealed Right-Angle Bracket

Model	Description	Construction	
LMB30RA	<b>Direct-Mount Models:</b> Bracket kit with base, 30 mm adapter, set screw, fasteners, O-rings, and gaskets.	Black polycarbonate	
LMB30RAC		Gray polycarbonate	
LMBE12RA	<b>Pipe-Mount Models:</b> 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).	Black polycarbonate	
LMBE12RAC		Gray polycarbonate	

## Elevated Mount System

Model			Features	Components
SA-M30TE12 - Black Acetal			<ul style="list-style-type: none"><li>Streamlined black acetal or white UHMW stand-off pipe adapter/cover</li><li>Connects between 30 mm light base and ½ in. NPSM/DN15 pipe</li><li>Mounting hardware included</li></ul>	
SA-M30TE12C - White UHMW				
Polished 304 Stainless Steel	Black Anodized Aluminum	Clear Anodized Aluminum	<ul style="list-style-type: none"><li>Elevated-use stand-off pipe (½ in. NPSM/DN15)</li><li>Polished 304 stainless steel, black anodized aluminum, or clear anodized aluminum surface</li><li>½ in. NPT thread at both ends</li><li>Compatible with most industrial environments</li></ul>	
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			<ul style="list-style-type: none"><li>Streamlined black acetal or white UHMW mounting base adapter/cover</li><li>Connects between ½ in. NPSM/DN15 pipe and 30 mm (1-3/16 in) drilled hole</li><li>Mounting hardware included</li></ul>	
SA-E12M30C - White UHMW				

## Pipe Mounting Flange

Pipe Mounting Flange			
Model	Features	Construction	
SA-F12	<ul style="list-style-type: none"> <li>Elevated-use stand-off pipes (½ in, NPSM/DN15)</li> <li>M5 mounting hardware and nitrile gasket included</li> </ul>	Die-cast zinc base with black paint	
SA-F12-3	<ul style="list-style-type: none"> <li>Elevated-use stand-off pipes (½ in, NPSM/DN15)</li> <li>M4 mounting hardware and nitrile blend gasket included</li> </ul>	Black Polycarbonate	

## Banner Engineering Corp. Limited Warranty

Banner Engineering Corp. warrants its products to be free from defects in material and workmanship for one year following the date of shipment. Banner Engineering Corp. will repair or replace, free of charge, any product of its manufacture which, at the time it is returned to the factory, is found to have been defective during the warranty period. This warranty does not cover damage or liability for misuse, abuse, or the improper application or installation of the Banner product.

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