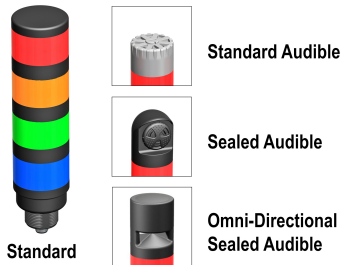


Datasheet

Multi-Color General-Purpose or Audible Indicators



- Rugged, cost-effective, and easy-to-install multi-segment indicators
- Illuminated segments provide easy-to-see operator guidance and indication of equipment status
- Up to 7 stacked colors available
- Available in black or light gray housing
- Audible models available with standard, sealed, or omni-directional audible element
- Compact devices are completely self-contained, no controller needed
- Models with 1 to 5 segments, 18 V dc to 30 V dc or 24 V ac operation
- Models with 6 to 7 segments, 12 V dc to 30 V dc or 24 V ac operation
- No assembly required

Non-Audible Models

Model ¹	# of LED Colors	LED Colors ²	Connection ³	Inputs
TL50RQ	1	Red	Integral 4-pin M12/Euro-style quick disconnect	Bimodal (NPN or PNP)
TL50GRQ	2	Green, Red		
TL50GYRQ	3	Green, Yellow, Red		
TL50BGYRQ	4	Blue, Green, Yellow, Red	Integral 5-pin M12/Euro-style quick disconnect	
TL50WBGYRQ	5	White, Blue, Green, Yellow, Red	Integral 8-pin M12/Euro-style quick disconnect	

Audible Models

Standard Audible Model ¹	# of LED Colors	LED Colors ²	Connection ³	Inputs
TL50RAQ	1	Red	Integral 4-pin M12/Euro-style quick disconnect	Bimodal (NPN or PNP)
TL50GRAQ	2	Green, Red		
TL50GYRAQ	3	Green, Yellow, Red	Integral 5-pin M12/Euro-style quick disconnect	
TL50BGYRAQ	4	Blue, Green, Yellow, Red	Integral 8-pin M12/Euro-style quick disconnect	
TL50WBGYRAQ	5	White, Blue, Green, Yellow, Red		

Sealed Audible Model ¹			# of LED Colors	LED Colors ²	Connection ³	Inputs
Continuous	Pulsed at 1.6 Hz	Staccato				
TL50RALSQ	TL50RALS3Q	TL50RALS4Q	1	Red	Integral 4-pin M12/Euro-style quick disconnect	Bimodal (NPN or PNP)
TL50GRALSQ	TL50GRALS3Q	TL50GRALS4Q	2	Green, Red		
TL50GYRALSQ	TL50GYRALS3Q	TL50GYRALS4Q	3	Green, Yellow, Red	Integral 5-pin M12/Euro-style quick disconnect	
TL50BGYRALSQ	TL50BGYRALS3Q	TL50BGYRALS4Q	4	Blue, Green, Yellow, Red	Integral 8-pin M12/Euro-style quick disconnect	
TL50WBGYRALSQ	TL50WBGYRALS3Q	TL50WBGYRALS4Q	5	White, Blue, Green, Yellow, Red		

¹ 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" in quick disconnect model numbers. For example, TL50RAC or TL50RACQ.

² The first color listed is the bottom color, going up in successive order. Other available colors include: Turquoise (T), Orange (O), Violet (V), Sky Blue (S) and Magenta (M).

³

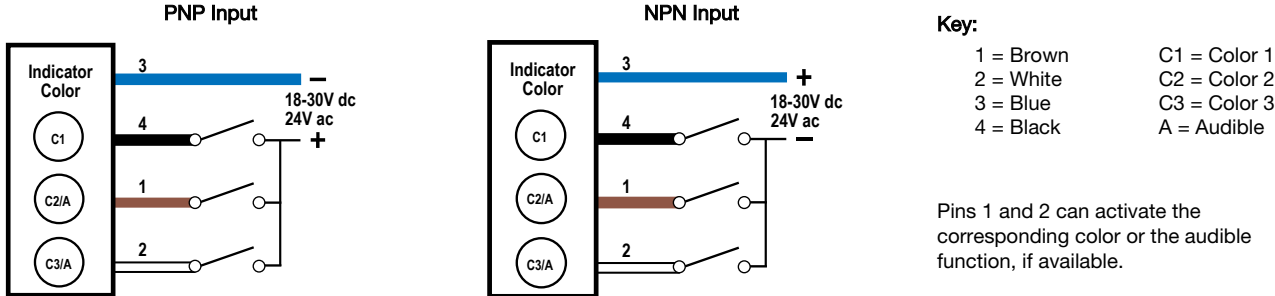
- To order the 150 mm (6 in) PVC cable model with a M12/Euro-style quick disconnect, replace the suffix "Q" with "QP" in the model number. For example, TL50RAQP.
- To order the 2 m (6.5 ft) PVC cable model, omit the suffix "Q" in the model number. For example, TL50RA.
- Models with a quick disconnect require a mating cordset.



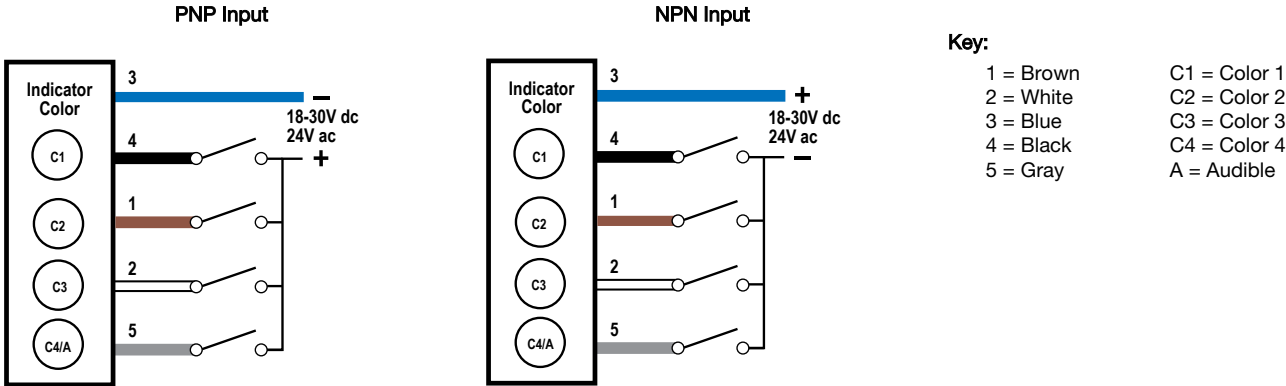
Omni-Directional ⁴ Sealed Audible Model ¹			# of LED Colors	LED Colors ²	Connection ³	Inputs
Continuous	Pulsed at 1.6 Hz	Staccato				
TL50RAOSQ	TL50RAOS3Q	TL50RAOS4Q	1	Red	Integral 4-pin M12/Euro-style quick disconnect	Bimodal (NPN or PNP)
TL50GRAOSQ	TL50GRAOS3Q	TL50GRAOS4Q	2	Green, Red		
TL50GYRAOSQ	TL50GYRAOS3Q	TL50GYRAOS4Q	3	Green, Yellow, Red	Integral 5-pin M12/Euro-style quick disconnect	
TL50BGYRAOSQ	TL50BGYRAOS3Q	TL50BGYRAOS4Q	4	Blue, Green, Yellow, Red	Integral 8-pin M12/Euro-style quick disconnect	
TL50WBGYRAOSQ	TL50WBGYRAOS3Q	TL50WBGYRAOS4Q	5	White, Blue, Green, Yellow, Red		

Omni-Directional ⁴ Sealed Audible Model with Intensity Adjustment ¹			# of LED Colors	LED Colors ²	Connection ³	Inputs
Continuous	Pulsed at 1.6 Hz	Staccato				
TL50RAOSIQ	TL50RAOS3IQ	TL50RAOS4IQ	1	Red	Integral 4-pin M12/Euro-style quick disconnect	Bimodal (NPN or PNP)
TL50GRAOSIQ	TL50GRAOS3IQ	TL50GRAOS4IQ	2	Green, Red		
TL50GYRAOSIQ	TL50GYRAOS3IQ	TL50GYRAOS4IQ	3	Green, Yellow, Red	Integral 5-pin M12/Euro-style quick disconnect	
TL50BGYRAOSIQ	TL50BGYRAOS3IQ	TL50BGYRAOS4IQ	4	Blue, Green, Yellow, Red	Integral 8-pin M12/Euro-style quick disconnect	
TL50WBGYRAOSIQ	TL50WBGYRAOS3IQ	TL50WBGYRAOS4IQ	5	White, Blue, Green, Yellow, Red		

Wiring Diagram — 4-Pin Models with 1 to 3 Segments



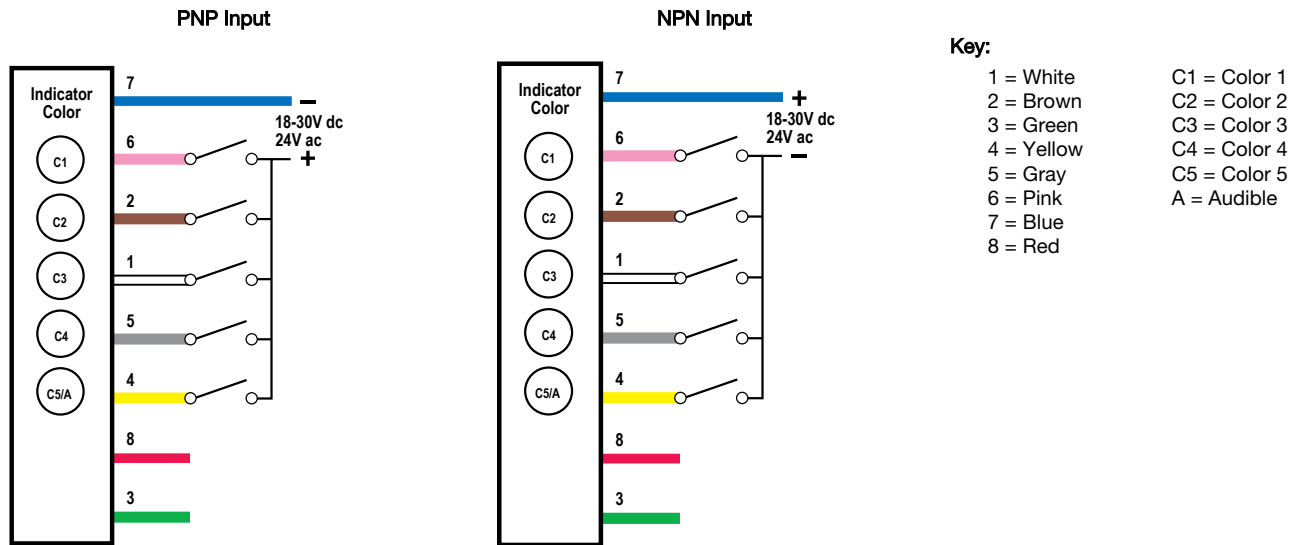
Wiring Diagram – 5-Pin Models with 4 Segments



Pin 5 can activate the corresponding color or the audible function, if available.

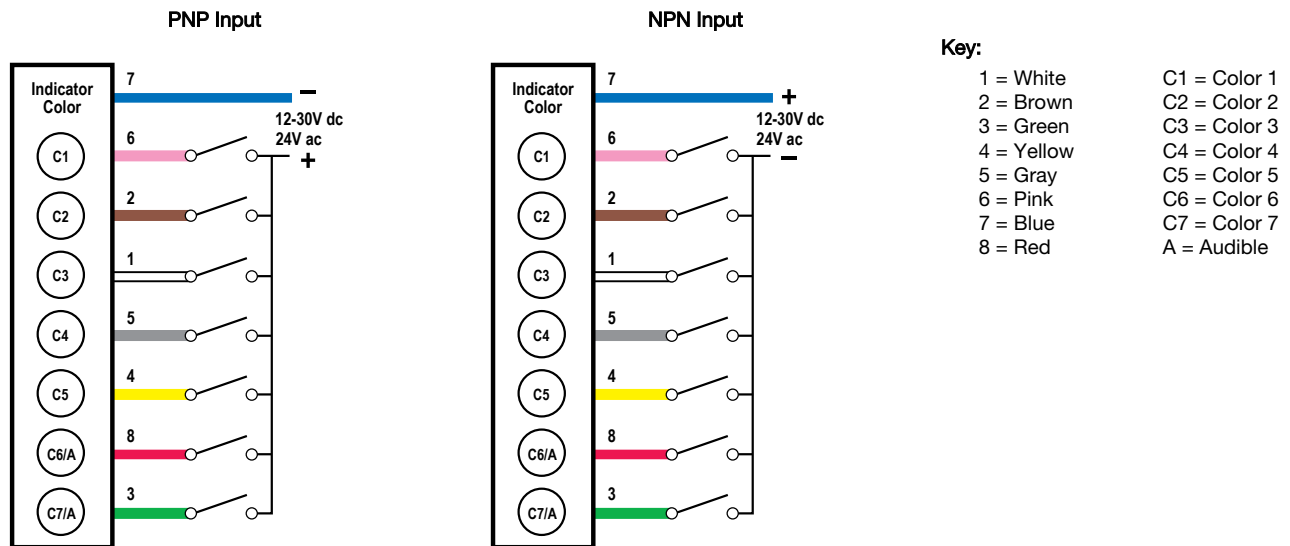
⁴ Sound exits at 45°.

Wiring Diagram — 8-Pin Models with 5 Segments



Pin 4 can activate the corresponding color or the audible function, if available. Pins 3 and 8 are not used.

Wiring Diagram — 8-Pin Models with 6 to 7 Segments



Pins 3 and 8 can activate the corresponding color or the audible function, if available.

Specifications

Supply Voltage and Current

Models with 1 to 5 segments: 18 V dc to 30 V dc; or 24 V ac (± 3 V) at 50 Hz to 60 Hz (both lights and audible alarms are counted as segments)

Indicators—maximum current per LED color: 45 mA at 18 V to 30 V dc

Models with 6 to 7 segments: 12 V dc to 30 V dc or 24 V ac (± 3 V) at 50 Hz to 60 Hz (both lights and audible alarms are counted as segments)

Indicators—maximum current per LED color:

- 135 mA at 12 V dc
- 45 mA at 30 V dc
- 60 mA at 24 V ac

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 transient voltages

Input 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 m (3.3 ft) (typical)

Sealed Audible Alarm: 2.9 kHz \pm 250 Hz oscillation frequency; maximum intensity 94 dB at 1 m (3.3 ft) (typical)

Omni-Directional Sealed Audible Alarm: 2.1 kHz \pm 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 \pm 250 Hz oscillation frequency; maximum intensity 95 dB at 1 m (3.3 ft) (typical)

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

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.

Connections

Integral 4-pin, 5-pin, or 8-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

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 are independently selected; 1 to 7 colors depending on model

Indicator Characteristics

Color	Dominant Wavelength (nm) or Color Temperature (CCT)	Color Coordinates ⁵		Lumen Output (Typical at 25 °C)
		x	y	
Green	528 nm	-	-	23.0
Red	625 nm	-	-	7.5
Yellow	590 nm	-	-	5.0
Blue	470 nm	-	-	4.0
Orange	608 nm	-	-	15.5
White	6000 K	-	-	21.0
Turquoise	-	0.19	0.37	5.5
Violet	-	0.20	0.08	2.5
Magenta	-	0.35	0.15	3.0
Sky Blue	-	0.19	0.26	12.0

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.

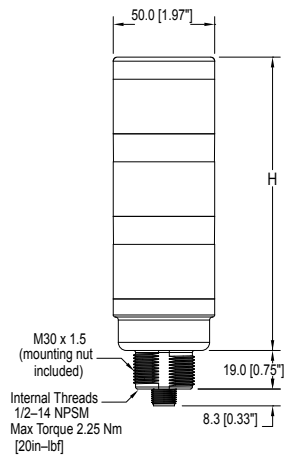
Supply wiring leads < 24 AWG shall not be spliced.

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

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

⁵ Refer to CIE 1931 chromaticity diagram or color chart, to show equivalent color with indicated color coordinates.

Dimensions



# of Colors	Tower Height (H)			
	Non-Audible	Standard Audible*	Sealed Audible	Omni-Directional Sealed Audible
1	61.2 mm (2.4 in)	92.0 mm (3.6 in)	115.1 mm (4.5 in)	129.1 mm (5.1 in)
2	101.9 mm (4.0 in)	132.7 mm (5.2 in)	155.8 mm (6.1 in)	169.8 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	224.0 mm (8.8 in)	254.8 mm (10.0 in)	277.9 mm (10.9 in)	291.1 mm (11.5 in)
6	264.7 mm (10.4 in)	298.5 mm (11.8 in)	318.6 mm (12.5 in)	332.6 mm (13.1 in)
7	305.4 mm (12.0 in)	-	-	-

* Tower height (H) with top unscrewed approximately 3.5 mm (0.18 in) to allow sound to escape

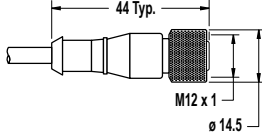
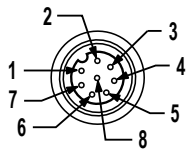
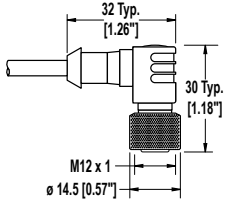
All measurements are listed in millimeters [inches], unless noted otherwise.

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		<p>1 = Brown 2 = White 3 = Blue 4 = Black</p>
MQDC-415	4.57 m (15 ft)			
MQDC-430	9.14 m (30 ft)			
MQDC-450	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)			
MQDC1-506RA	1.83 m (6 ft)	Right-Angle		
MQDC1-515RA	4.57 m (15 ft)			
MQDC1-530RA	9.14 m (30 ft)			

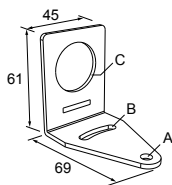
8-Pin Threaded M12/Euro-Style Cordsets with Open-Shield				
Model	Length	Style	Dimensions	Pinout (Female)
MQDC2S-806	1.83 m (6 ft)	Straight		 <p>1 = White 2 = Brown 3 = Green 4 = Yellow 5 = Gray 6 = Pink 7 = Blue 8 = Red</p>
MQDC2S-815	4.57 m (15 ft)			
MQDC2S-830	9.14 m (30 ft)			
MQDC2S-850	15.2 m (50 ft)			
MQDC2S-806RA	1.83 m (6 ft)	Right-Angle		
MQDC2S-815RA	4.57 m (15 ft)			
MQDC2S-830RA	9.14 m (30 ft)			
MQDC2S-850RA	15.2 m (50 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

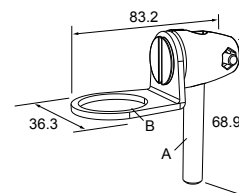


Hole center spacing: A to B=40

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

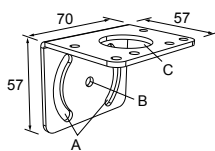


Bolt thread: SMB30FA, A= 3/8 - 16 x 2 in; SMB30FAM10, A= M10 - 1.5 x 50

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

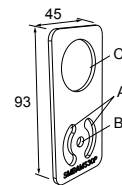


Hole center spacing: A = 51, A to B = 25.4

Hole size: A = 42.6 x 7, B = ø 6.4, C = ø 30.1

SMBAMS30P

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

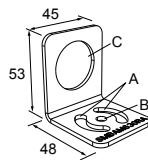


Hole center spacing: A=26.0, A to B=13.0

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

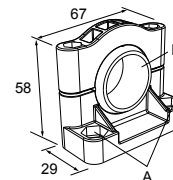


Hole center spacing: A=26.0, A to B=13.0

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



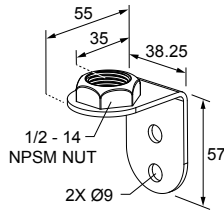
Hole center spacing: A=ø 50.8

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

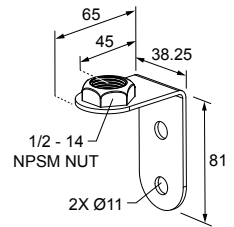
Hole center spacing: 20.0



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	Direct-Mount Models: Bracket kit with base, 30 mm adapter, set screw, fasteners, O-rings, and gaskets.	Black polycarbonate	
LMB30RAC		Gray polycarbonate	
LMBE12RA	Pipe-Mount Models: Bracket kit with base, 1/2-14 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"> • Streamlined black acetal or white UHMW stand-off pipe adapter/cover • Connects between 30 mm light base and 1/2 in. NPSM/DN15 pipe • Mounting hardware included 															
SA-M30TE12C - White UHMW																
<table border="1"> <tr> <th>Polished 304 Stainless Steel</th> <th>Black Anodized Aluminum</th> <th>Clear Anodized Aluminum</th> </tr> <tr> <td>SOP-E12-150SS 150 mm (6 in) long</td> <td>SOP-E12-150A 150 mm (6 in) long</td> <td>SOP-E12-150AC 150 mm (6 in) long</td> </tr> <tr> <td>SOP-E12-300SS 300 mm (12 in) long</td> <td>SOP-E12-300A 300 mm (12 in) long</td> <td>SOP-E12-300AC 300 mm (12 in) long</td> </tr> <tr> <td>SOP-E12-900SS 900 mm (36 in) long</td> <td>SOP-E12-900A 900 mm (36 in) long</td> <td>SOP-E12-900AC 900 mm (36 in) long</td> </tr> </table>	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	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	<ul style="list-style-type: none"> • Elevated-use stand-off pipe (1/2 in. NPSM/DN15) • Polished 304 stainless steel, black anodized aluminum, or clear anodized aluminum surface • 1/2 in. NPT thread at both ends • Compatible with most industrial environments 			
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														
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"> • Streamlined black acetal or white UHMW mounting base adapter/cover • Connects between 1/2 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	Features	Construction	
SA-F12	<ul style="list-style-type: none"> • Elevated-use stand-off pipes (1/2 in, NPSM/DN15) • M5 mounting hardware and nitrile gasket included 	Die-cast zinc base with black paint	

Pipe Mounting Flange			
Model	Features	Construction	
SA-F12-3	<ul style="list-style-type: none"> Elevated-use stand-off pipes (1/2 in, NPSM/DN15) M4 mounting hardware and nitrile blend gasket included 	Black Polycarbonate	

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[TL50GQ](#) [TL50GRAOSIQ](#) [TL50GRAQ](#) [TL50GRYBQ](#) [TL50GYRA](#) [TL50GYRALSQ](#) [TL50GYRAOS4IQ](#)
[TL50GYRAOSIQ](#) [TL50GYRAQ](#) [TL50GYRQ](#) [TL50RALSQ](#) [TL50RGQ](#) [TL50RQ](#) [TL50RYGAOSQ](#) [TL50WGYRQ](#)
[TL50BALSQ](#) [TL50BAOS3Q](#) [TL50BAOS4IQ](#) [TL50BAOSQ8](#) [TL50BAOSIQ](#) [TL50BAQ](#) [TL50BBBAOSICQ](#)
[TL50BBBBBAOS4Q](#) [TL50BBQP](#) [TL50BCQ](#) [TL50BGGYRALSQ](#) [TL50BGORACQ](#) [TL50BGORQ](#) [TL50BGQ](#)
[TL50BGR](#) [TL50BGRALS](#) [TL50BGRAOS4IQ](#) [TL50BGRAOSQ](#) [TL50BGRAQ](#) [TL50BGRQ](#) [TL50BGRYA](#)
[TL50BGRYAQ](#) [TL50BGRYQ](#) [TL50BGWRAOSQ](#) [TL50BGWRAQ](#) [TL50BGWRQ](#) [TL50BGWYRQ](#) [TL50BGYALS4Q](#)
[TL50BGYR](#) [TL50BGYRA](#) [TL50BGYRAC](#) [TL50BGYRACQ](#) [TL50BGYRALS](#) [TL50BGYRALS3Q](#) [TL50BGYRALSCQ](#)
[TL50BGYRALSQ](#) [TL50BGYRAOS3IQ](#) [TL50BGYRAOS3Q](#) [TL50BGYRAOSIQ](#) [TL50BGYRAOSIQP](#) [TL50BGYRAOSQ](#)
[TL50BGYRC](#) [TL50BGYRCQ](#) [TL50BGYROQ](#) [TL50BGYRQP](#) [TL50BGYWALS](#) [TL50BOQ](#) [TL50BOR](#)
[TL50BORAOS4](#) [TL50BORGYAQ](#) [TL50BORQ](#) [TL50BOVCQ](#) [TL50BR](#) [TL50BRA](#) [TL50BRAOS3Q](#) [TL50BRCQ](#)
[TL50BRGALSQ](#) [TL50BROGACQ](#) [TL50BRQ](#) [TL50BRQP](#) [TL50BRYGAQ](#) [TL50BRYGQ](#) [TL50BWBWBWQ](#)
[TL50BWGRQ](#) [TL50BWGYRAQ](#) [TL50BWQ](#) [TL50BWRAOS4Q](#) [TL50BWRQ](#) [TL50BWYGRQ](#) [TL50BWYR](#)
[TL50BYGRQ](#) [TL50BYOR](#) [TL50BYQ](#) [TL50BYR](#) [TL50BYRA](#) [TL50BYRGALSQ](#) [TL50BYRGAQ](#)