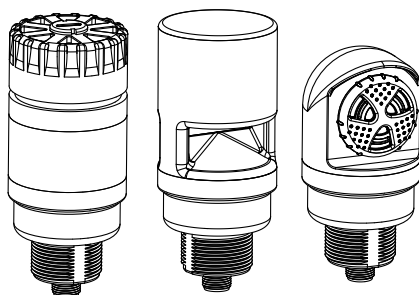


TL50 Audible Indicators

General-purpose audible indicators

For the latest technical information about this product, including specifications, dimensions, and wiring, see Banner Engineering website.



- Rugged, cost-effective and easy to install
- Compact devices are self-contained — no controller needed
- Immune to EMI and RFI interference
- Choose IP50 or Sealed IP67 model, black or light gray housing
- 12 to 30V dc operation

Models

Table 1: Standard Audible Models ¹

Model	Connection ²	Inputs
TL50AQ	4-pin Euro integral QD connector	Bimodal (NPN or PNP)

Table 2: Sealed Audible Models ¹

Continuous	Pulsed at 1.6 Hz	Staccato	Connection ²	Inputs
TL50ALSQ	TL50ALS3Q	TL50ALS4Q	4-pin Euro integral QD connector	Bimodal (NPN or PNP)

Table 3: Omni-Directional Sealed Audible Models ¹

Continuous	Pulsed at 1.6 Hz	Staccato	Connection ²	Inputs
TL50AOSQ	TL50AOS3Q	TL50AOS4Q	4-pin Euro integral QD connector	Bimodal (NPN or PNP)

Specifications

Audible Alarm

Audible measurements are made in the direction sound exits the device. For standard audible models, this is the top of the unit (when mounted vertically, sound is directed toward the ceiling). For sealed audible models, sound exits the vented openings in the side of the unit, which should be oriented so that the sound is directed toward the machine operator(s). In environments with high ambient noise levels or high ceilings that absorb sound, the sealed or omni-directional models are recommended.

Standard Audible Alarm: 2.7 KHz \pm 500 Hz oscillation frequency; max. intensity 92 db at 1 m (3.3 ft) (typical)

Sealed Audible Alarm: 2.9 KHz \pm 250 Hz oscillation frequency; max. intensity 94 db at 1 m (3.3 ft) (typical)

Omni-Directional Sealed Audible Alarm: 2.1 KHz \pm 250 Hz oscillation frequency; max intensity 99 db at 1m (3.3 ft) (typical)

Supply Voltage

12 to 30V dc (10% maximum ripple) at 45 mA max.; or 21 to 27V ac at 45mA

Environmental Rating

Standard models: IEC IP50

Sealed models: IEC IP67

Connections

Integral 4-pin, 150 mm PVC pigtail with QD, or 2 m (6.5 ft) integral cable, depending on model

Operating Conditions

-40 °C to +50 °C (-40 °F to +122 °F)

Certifications



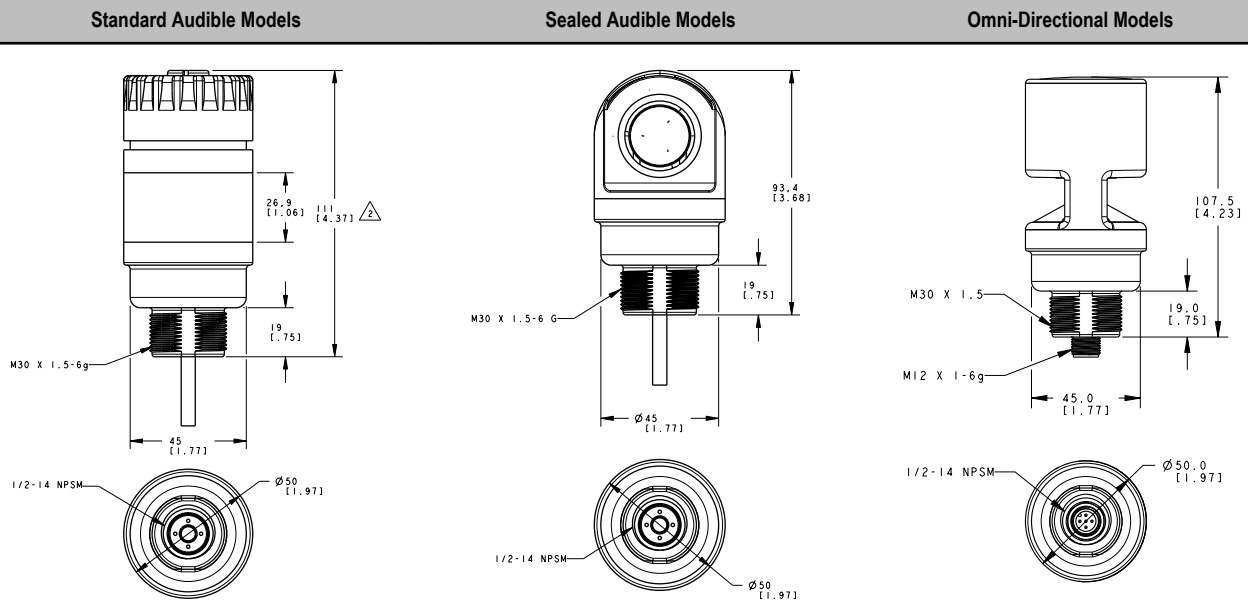
Omni-Directional models: pending

¹ Models with black housing are listed. For gray housing, add suffix **C** at the end of the model number (cabled models) or before the Q (QD models), for example, TL50AC or TL50ACQ.

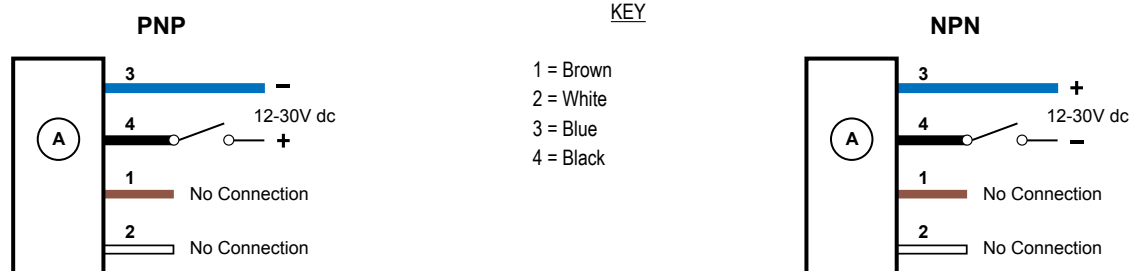
² Integral QD models only are listed; mating cordset required (see [4-Pin Euro-Style Cordsets](#)):

- For 150 mm PVC pigtail with QD, replace **Q** with **QP** in model number, for example, **TL50AQP**
- For 2 m (6.5 ft) PVC cable, omit suffix **Q** from model number, for example, **TL50A**

Dimensions



Wiring



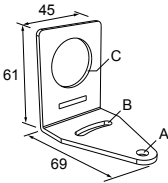
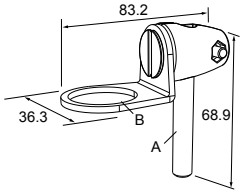
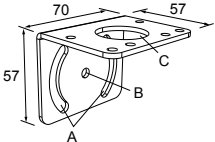
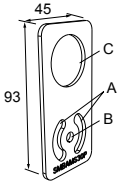
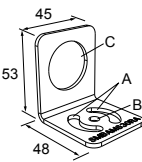
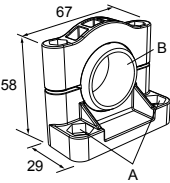
Accessories

Cordsets

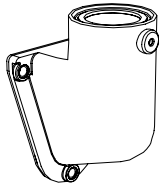
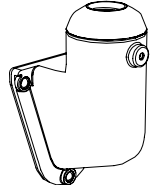
4-Pin Threaded M12/Euro-Style Cordsets				
Model	Length	Style	Dimensions	Pinout
MQDC-406	1.83 m (6 ft)	Straight		
MQDC-415	4.57 m (15 ft)			
MQDC-430	9.14 m (30 ft)			
MQDC-450	15.2 m (50 ft)			
MQDC-406RA	1.83 m (6 ft)	Right-Angle		<p>1 = Brown 2 = White 3 = Blue 4 = Black</p>
MQDC-415RA	4.57 m (15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

Mounting Brackets




All measurements are in mm

<p>SMB30A</p> <ul style="list-style-type: none"> 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  <p>Hole center spacing: A to B=40 Hole size: A=ø 6.3, B= 27.1 x 6.3, C=ø 30.5</p>	<p>SMB30FA</p> <ul style="list-style-type: none"> 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  <p>Bolt thread: SMB30FA, A= 3/8 - 16 x 2 in; SMB30FAM10, A= M10 - 1.5 x 50 Hole size: B= ø 30.1</p>
<p>SMB30MM</p> <ul style="list-style-type: none"> 12-ga. stainless steel bracket with curved mounting slots for versatile orientation Clearance for M6 (¼ in) hardware Mounting hole for 30 mm sensor  <p>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</p>	<p>SMBAMS30P</p> <ul style="list-style-type: none"> Flat SMBAMS series bracket 30 mm hole for mounting sensors Articulation slots for 90°+ rotation 12-ga. 300 series stainless steel  <p>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</p>
<p>SMBAMS30RA</p> <ul style="list-style-type: none"> Right-angle SMBAMS series bracket 30 mm hole for mounting sensors Articulation slots for 90°+ rotation 12-ga. (2.6 mm) cold-rolled steel  <p>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</p>	<p>SMB30SC</p> <ul style="list-style-type: none"> Swivel bracket with 30 mm mounting hole for sensor Black reinforced thermoplastic polyester Stainless steel mounting and swivel locking hardware included  <p>Hole center spacing: A=ø 50.8 Hole size: A=ø 7.0, B=ø 30.0</p>

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, 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">Streamlined black acetal or white UHMW stand-off pipe adapter/coverConnects between 30 mm light base and ½ in. NPSM/DN15 pipeMounting hardware included	
SA-M30TE12C - White UHMW				
Polished 304 Stainless Steel	Black Anodized Aluminum	Clear Anodized Aluminum	<ul style="list-style-type: none">Elevated-use stand-off pipe (½ in. NPSM/DN15)Polished 304 stainless steel, black anodized aluminum, or clear anodized aluminum surface½ in. NPT thread at both endsCompatible 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			<ul style="list-style-type: none">Streamlined black acetal or white UHMW mounting base adapter/coverConnects between ½ in. NPSM/DN15 pipe and 30 mm (1-3/16 in) drilled holeMounting hardware included	
SA-E12M30C - White UHMW				

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