TL50A Audible Indicators



Datasheet

General-Purpose Audible Indicators

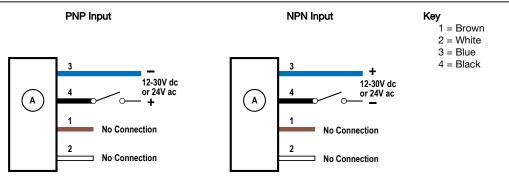


- ٠
- Rugged, cost-effective and easy to install Compact devices are self-contained, no controller needed •
- Immune to EMI and RFI interference ٠ ٠
 - Choose IP50 or Sealed IP67 model, black or light gray housing 12 V DC to 30 V DC, or 24 V AC operation
- •

Models

Standard Audible Models ¹			Connection ²	Inputs	
TL50AQ			Integral 4-pin M12 male quick-disconnect connector	Bimodal (NPN or PNP)	
Sealed Audible Models 1			Connection 2	1	
Continuous	Pulsed at 1.6 Hz	Staccato	Connection =	Inputs	
TL50ALSQ	TL50ALS3Q	TL50ALS4Q	Integral 4-pin M12 male quick-disconnect connector	Bimodal (NPN or PNP)	
Omni-Directional Sealed Audible Models ¹			Connection ²	Inputs	
Continuous	Pulsed at 1.6 Hz	Staccato		inpute	
TL50AOSQ	TL50AOS3Q	TL50AOS4Q	Integral 4-pin M12 male quick-disconnect connector	Bimodal (NPN or PNP)	
Omni-Directional Sealed Audible Models with Intensity Adjustment 1			Connection ²	Innute	
Continuous	Pulsed at 1.6 Hz	Staccato		Inputs	
TL50AOSIQ	TL50AOS3IQ	TL50AOS4IQ	Integral 4-pin M12 male quick-disconnect connector	Bimodal (NPN or PNP)	

Wiring Diagrams





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, TL50AC or TL50ACQ.

² Integral quick disconnect models are listed.

To order the 150 mm (6 in) PVC cable model with a M12 quick disconnect, replace the suffix "Q" with "QP" in the model number. For example, TL50AQP. To order the 2 m (6.5 ft) PVC cable model, omit the suffix "Q" in the model number. For example, TL50A. ٠

[•]

[•] Models with a quick disconnect require a mating cordset.

Specifications

Supply Voltage and Current 12 V DC to 30 V DC; or 24 V AC (± 3 V AC) at 50 Hz to 60 Hz Standard Audible Alarm: 25 mA maximum current Sealed Audible Alarm: 35 mA maximum current Omni-Directional Sealed Audible Alarm: 45 mA maximum current

Audible Alarm

Standard Audible Alarm: 2.7 kHz ± 500 Hz oscillation frequency; maximum intensity 92 dB at 1 m (3 .3 ft) (typic

ob at 1 m (3.3 tt) (typical) Sealed Audible Alarm: 2.9 kHz ± 250 Hz oscillation frequency; maximum intensity 94 dB at 1 m (3.3 tt) (typical) Omni-Directional Sealed Audible Alarm: 2.1 kHz ± 250 Hz oscillation frequency; maximum intensity 99 dB at 1 m (3.3 tt) (typical)

Audible Adjustment

 udible 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 Alarm: 20 dB

 • Sealed Audible Alarm: 20 dB

 • Omni-Directional Sealed Audible Alarm: 12 dB

Connections

Integral 4-pin M12 male quick-disconnect connector, 150 mm (6 in) PVC cable with an M12 quick disconnect, or 2 m (6.5 ft) integral PVC cable, depending on model Models with a quick disconnect require a mating cordset

Vibration and Mechanical Shock

Meets IEC 60068-2-26 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

-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 Standard models: IP50 Sealed models: IP67

Audible Section

26.9

M30 X 1.5

1/2-14 NPSM

[1.06]

Dimensions

Standard Audible Models

45 [1.77]

Sealed Audible Models

ø45 [1.77]

Required Overcurrent Protection

Supply Wiring (AWG)

20

22

24

26

28

30

Certifications

CE

(VL)_{US}

93.4

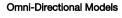
[3.68]

19

[0.75]

ø50 [1.97]

/!\



WARNING: Electrical connections must be made by

Required Overcurrent Protection (Amps)

50

3.0

2.0

1.0

0.8

0.5

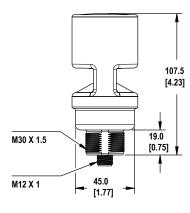
Banner Engineering Europe Park Lane, Culliganlaan 2F bus 3, 1831 Diegem, BELGIUM

Turck Banner LTD Blenheim House, Blenheim Court, Wickford, Essex SS11 8YT, Great Britain

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.





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

19

[0.75]

ø50

[1.97]

111

[4.37]

M30 X 1.5

1/2-14 NPSM

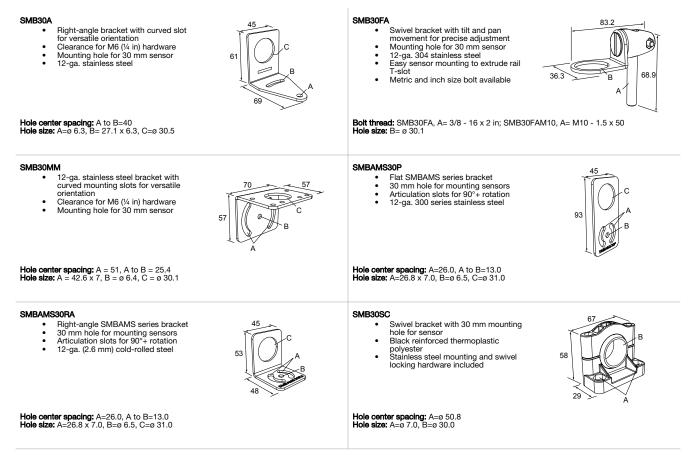
Accessories

Cordsets

4-Pin Threaded M12 Cordsets-Single Ended					
Model	Length	Style	Dimensions	Pinout (Female)	
MQDC-406	2 m (6.56 ft)		- 44 Tura		
MQDC-415	5 m (16.4 ft)		44 Typ. M12 x 1 0 14.5	$\begin{array}{c}1\\4\end{array}$	
MQDC-430	9 m (29.5 ft)	Straight			
MQDC-450	15 m (49.2 ft)	Straight			
MQDC-406RA	2 m (6.56 ft)	Right-Angle	32 Typ. 11.26" 30 Typ. 11.18" 412 x 1 6 14.5 [0.57"]	2 = White 3 = Blue 4 = Black	1 = Brown 2 = White
MQDC-415RA	5 m (16.4 ft)				3 = Blue 4 = Black 5 = Unused
MQDC-430RA	9 m (29.5 ft)				
MQDC-450RA	15 m (49.2 ft)				

Mounting Brackets

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



LMBE12RA35 LMBE12RA45 55 65 Direct mounting of stand-off pipe, with common bracket type Zinc-plated steel 1/2-14 NPSM nut Direct mounting of stand-off pipe, with common bracket type Zinc-plated steel 1/2-14 NPSM nut • • 35 45 38.25 38.25 ٠ ٠ Mounting distance from the wall to the center of the 1/2-14 NPSM nut is 35 mm Mounting distance from the wall to the center of the 1/2-14 NPSM nut is 45 mm • • \bigcirc 0 1/2 - 14 1/2 - 14 NPSM NUT Hole center spacing: 20.0 57 Hole center spacing: 35.0 NPSM NUT 81 Q Ð 2X Ø9 2X Ø11

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 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
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 29 1 8.77 1 8.77 1 1 8.77 1 1 1 1 1 2 x 120 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

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		Black polycarbonate	Ũ
LMBE12RAC	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).	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		db
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 aluminum, or 	
SOP-E12-300SS 300 mm (12 in) long	SOP-E12-300A 300 mm (12 in) long	SOP-E12-300AC 300 mm (12 in) long	clear anodized aluminum surface ½ in. NPT thread at both ends 	
SOP-E12-900SS 900 mm (36 in) long	SOP-E12-900A 900 mm (36 in) long	SOP-E12-900AC 900 mm (36 in) long	Compatible with most industrial environments	
SA-E12M30 - Black Acetal			Streamlined black acetal or white UHMW mounting base	0
SA-E12M30C - White UHMW			adapter/cover Connects between ½ in. NPSM/DN15 pipe and 30 mm (1-3/16 in) drilled hole Mounting hardware included	

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