

PATLITE® Audio Signaling Overview

Audible Signal Devices

Patlite offers a wide range of audio signaling devices for either installation panel or surface mount applications with a variety of decibel ranges and options. All options come with pre-configured digital audio tones and the ability to be field configured using an SD card.

- Up to 110db (signal horn)
- Temperature tolerant (typically -10°C or less to +50°C or more)
- Good environmental protection ratings when installed correctly
- Wide range of digital tones to choose from
- Optional SD card can be used to field configure tones
- Variety of models for both AC and DC applications
- Polycarbonate or plastic construction



Audio Accessories

Accessories for Patlite audio signaling devices:

- Replacement parts
- 2GB micro SD card with SD adapter



PATLITE® Audible Alarm Buzzers

Panel-mount Electronic Buzzers

BM Series Buzzer Features

- Available in both AC and DC versions
- 30mm round mounting on 50mm square backing
- Two selectable alarm sounds
- Up to 90dB volume
- Meets IP30 standards
- Designed to operate in temperatures from -10 to +60°C [+14 to +140°F]



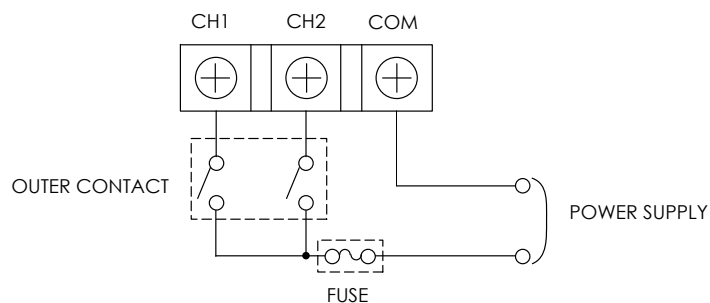
BM-202H

BM Series Buzzer Specifications

Part Number	BM-202H	BM-212H
Price		
Drawing Link	PDF	PDF
Description	Buzzer	
Rated Voltage	24V AC/DC	120VAC
Operating Voltage Range	Rated voltage \pm 10%	
Rated Power Consumption	0.4 W	2.5 W
Maximum Volume	85dB @ 1m	90dB @ 1m
Tone Type	Buzzer 1: Slow intermittent Buzzer 2: Fast intermittent	
Operating Temperature	-10 to +60°C [+14 to +140°F]	
Operating Ambient Humidity	Less than 85% (no condensation)	
Mounting Location	Indoors	
Mounting Direction	Upright, sideways, upside-down	
Protection	IP30 (IEC 60529)	
Insulation Resistance	More than 1M Ω at 500VDC between terminals and chassis	
Withstand Voltage	500VAC applied for 1 minute between terminals and chassis	1500VAC applied for 1 minute between terminals and chassis
Weight	100g [3.5 oz]	
Housing Material	ABS Plastic	
Agency Approvals	EMC Directive (EN 55011, EN 610006-2) RoHS Directive (EN 50581) Conforms to CE requirements	-

To obtain the most current agency approval information, see the Agency Approval

WIRING DIAGRAM



PATLITE® Audible Signal Horns

Electronic Sound Signal Horns

EHS Series Horns Features

- Compact signal horn
- Four playback modes
- Can be used with either PNP or NPN inputs
- Meets IP65 standards
- Designed to operate in temperatures from -20 to +50°C
- Polycarbonate construction
- 32 standard sounds
- Optional SD card for field configuration (sold separately)



EHS-M1TE

EHS Series Signal Horns Specifications		
Part Number	EHS-M1TE	EHS-M2TE
Price		
Drawing Link	PDF	PDF
Description	Signal Horn	
Rated Voltage	12-24VDC	100-240VAC (50/60Hz)
Operating Voltage	10.8-35VDC	90-264VAC (50/60Hz)
Current Consumption	450mA	140mA
Power Consumption	5.0-7.6 W	6.9-7.3 W
Inrush Current	4-12.5 A or less	6-23A or less
Maximum Volume	110dB @ 1m	
Tone Type	Electronic (32 tones available)	
Operating Temperature	-20 to +50°C [-4to +122°F]	
Operating Ambient Humidity	Less than 85% (no condensation)	
Mounting Location	Indoors/outdoors	
Mounting Direction	Upright, sideways, upside-down	
Protection	IP65	
Insulation Resistance	More than 1MΩ at 500VDC between terminals and chassis	
Withstand Voltage	500VAC applied for 1 minute between terminals and chassis	1500VAC applied for 1 minute between terminals and chassis
Vibration Resistance	45.0 m/s ² (IEC 60068-2-6:2007), upright	
Weight	1.25 kg [2.8 lbs]	
Housing Material	Polycarbonate	
Memory Card	SD card (SDV-2GP recommended, sold separately), FAT16 or 32 format	
Agency Approvals	EMC Directive (EN 61000-6-4, EN 6100-6-2)	-
	RoHS Directive (EN 50581) UL 464, CSA-C22.2 No. 205-M1983 FCC Part 15 Subpart B Class A KC (KN22, KN24) UL Listed (File S24210)	

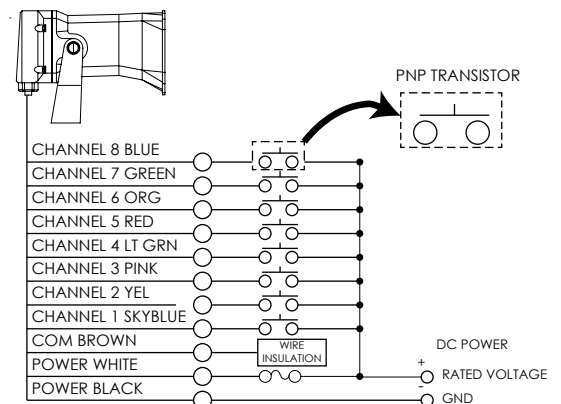


V21100522-F1



V13100076-F1

WIRING DIAGRAM



EHS Series Accessories		
Part Number	Price	Description
V21100522-F1		Replacement cover, for EHS series signal horns
V13100076-F1		Replacement 16 inch cable, for EHS series signal horns
SDV-2GP		2GB micro SD card with SD adapter

PATLITE® Audible Electronic Alarms

BD Series Panel- or Surface-mount Electronic Alarms

BD Series Alarms Features

- 80mm square alarm
- 32 different alarm tones available
- Up to 90dB volume
- Meets IP54 standards
- Designed to operate in temperatures from -20 to +55°C [-4 to +131°F]
- ABS plastic construction
- 32 standard sounds
- Optional SD card for field configuration (sold separately)



BD-24AE-J

BD Series Accessories

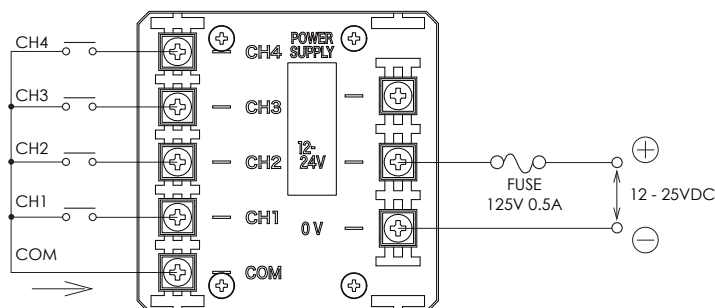
Part Number	Price	Description
SDV-2GP		2GB micro SD card with SD adapter

BD Series Alarm Specifications

Part Number	BD-24AE-J	BD-24AE-K
Price		
Drawing Link	PDF	PDF
Description	Alarm	
Rated Voltage	12-24VDC	
Operating Voltage Range	10.8-26.4 VDC	
Rated Power Consumption	Standby	0.5 W
	Maximum	4.0 W
Maximum Volume	90dB @ 1m	
Tone Type	Electronic (32 tones available)	
Operating Temperature	-20 to +55°C [-4 to +131°F]	
Operating Ambient Humidity	Less than 85% (no condensation)	
Mounting Location	Indoors	
Mounting Direction	Upright, sideways, inverted	
Protection	IP54	
Insulation Resistance	More than 1MΩ at 500VDC between terminals and chassis	
Withstand Voltage	500VAC applied for 1 minute between terminals and chassis	
Vibration Resistance	19.6 m/s ² (IEC 60529)	
Weight	160g [5.6 oz]	
Housing Material	ABS plastic	
Housing Color	Light gray	Dark gray
Agency Approvals	EMC Directive (EN 61000-6-4, EN 61000-6-2) RoHS Directive (EN 50581) FCC Part 15, Subpart B Class A UL 464, CSA-C22.2 No. 205-M1983 UL Recognized (File S24210) Conforms to CE requirements	

To obtain the most current agency approval information, see the Agency Approval

WIRING DIAGRAM



PATLITE® Audible Electronic Alarms

BSV Series Panel- or Surface-mount Electronic Alarms

BSV Series Alarms Features

- Compact alarm that plays 15 pre-recorded alarms
- Up to 90dB volume
- Meets IP54 standards when panel mounted
- Works with PNP inputs
- Designed to work in temperatures from -10 to +50°C [+14 to +122°F]
- Polycarbonate construction
- 15 standard sounds
- Optional SD card for field configurability (sold separately)



BSV-24P-D

BSV Series Accessories

Part Number	Price	Description
SDV-2GP		2GB micro SD card with SD adapter

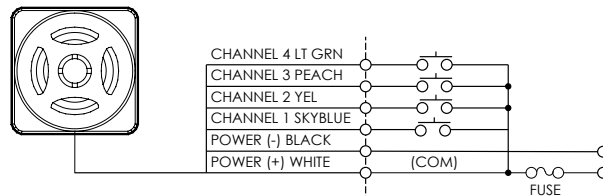
BSV Series Alarm Specifications

Part Number	BSV-24P-D	BSV-24P-W
Price		
Drawing Link	PDF	PDF
Description	Alarm	
Rated Voltage	12-24VDC	
Operating Voltage Range	10.8-26.4 VDC	
Rated Power Consumption	3.5 W	
Maximum Volume	85dB @ 1m	
Tone Type	Electronic (15 tones available)	
Operating Temperature	-10 to +50°C [+14 to +122°F]	
Operating Ambient Humidity	Less than 85% (no condensation)	
Mounting Location	Panel mount: Indoor/outdoor Wall mount: Indoors	
Mounting Direction	Upright, sideways, inverted	
Protection	Panel mount: IP54 (upright mounting direction only) Wall mount: IP20	
Insulation Resistance	More than 1MΩ at 500VDC between terminals and chassis	
Withstand Voltage	500VAC applied for 1 minute between terminals and chassis	
Vibration Resistance	70.0 m/s ² (in the x, y, and z directions for 2 hours each at 30Hz)	
Weight	100 [3.5 oz]	
Housing Material	Polycarbonate	
Housing Color	Dark gray	Off-white
Agency Approvals	EMC Directive (EN 61000-6-4, EN 61000-6-2) RoHS Directive (EN 50581) FCC Part 15, Subpart B Class A UL Recognized (File S24210)	

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Wiring Diagram

VOLTAGE CONTACT CIRCUIT



PNP TRANSISTOR CIRCUIT

