

Literature APPLICATION Guide

DC Medical Alarms (with Circuitry)

IEC 60601-1-8 AMD2 (2020)



MSS, MSW, SBS, & SBT:

- **UL File #:** MDAF2.E480572
- **CUL File #:** MDAF8.E480572

MSS & MSW: 23mm Speaker

SBS & SBW: 45mm Speaker

SBT Series: 45mm Piezo Transducer

IEC 60601-1-8 Notes:

- MSW & SBW Series:
 - IEC supplied sound files
 - Priority tone models meet IEC 60601-1-8 AMD2 (2020) Annex G; Tables G.3 & G.5
- MSS, SBS, & SBT Series:
 - Internally generated tones
 - General tone models meet IEC 60601-1-8 AMD2 (2020) Tables 3 & 4
 - Continuous tone models meet the freq. and rise & fall time listed in IEC 60601-1-8 AMD2 (2020) Table 4, but the user must control the on & off times to meet the other requirements of Tables 3 & 4.

23mm Speaker Alarms (With Circuitry)

MSW Series:

- IEC 60601-1-8 AMD2 (2020): Annex G; Tables G.3 & G.5
- Uses the IEC Supplied .WAV Sound Files

Sound, Electrical, & Size Characteristics

Part Number Prefix	Typical Sound Level @ 10 cm (dBa)	Operating Voltage (Vdc)	Ave Current (mA)	Max Instant Current (mA)	Size Dia x Hgt (mm)
MSW5	85 to 95	2.7 to 5.5	150	350	23 x 13.5

Model Listing

Part Number	Sound Type	IEC 60601-1-8 Table	1 st Tone Medical	2 nd Tone Medical	3 rd Tone Medical	Mounting Type
Single Low Priority General Medical Tone						
MSW5GL	General	G.3	Low Priority	N/A	N/A	2 PC Pins
Single Medium Priority Medical Tone						
MSW5GM	General	G.3	Med Priority	N/A	N/A	2 PC Pins
MSW5*M	See Note	G.3 & G.5	Med Priority	N/A	N/A	2 PC Pins
Single High Priority Medical Tone						
MSW5GH	General	G.3	High Priority	N/A	N/A	2 PC Pins
MSW5*H	See Note	G.3 & G.5	High Priority	N/A	N/A	2 PC Pins
Three Priority General Medical Tones						
MSW5G	General	G.3	Low Priority	Med Priority	High Priority	5 PC Pins
MSW5*	See Note	G.3 & G.5	Low Priority	Med Priority	High Priority	5 PC Pins

Note: * = **C** (Cardiac), **D** (Drug or Fluid Delivery), **E** (Equipment/Supply Failure), **P** (Artificial Perfusion), **T** (Temp-Energy), or **V** (Ventilation)

23mm Speaker Alarms (With Circuitry)

Model Listing (Con't)

Part Number	Sound Type	IEC 60601-1-8 Table	1 st Tone Medical	2 nd Tone Medical	3 rd Tone 2500 Hz	Mounting Type
Two Priority Medical Tones & One Other Non-Medical Tone						
MSW5GLHCT	General	G.3	Low Priority	High Priority	Continuous	5 PC Pins
MSW5GLHFP	General	G.3	Low Priority	High Priority	Fast Pulse	5 PC Pins
MSW5GLHMP	General	G.3	Low Priority	High Priority	Medium Pulse	5 PC Pins
MSW5GLHSP	General	G.3	Low Priority	High Priority	Slow Pulse	5 PC Pins
MSW5GLMCT	General	G.3	Low Priority	Med Priority	Continuous	5 PC Pins
MSW5GLMFP	General	G.3	Low Priority	Med Priority	Fast Pulse	5 PC Pins
MSW5GLMMP	General	G.3	Low Priority	Med Priority	Medium Pulse	5 PC Pins
MSW5GLMSP	General	G.3	Low Priority	Med Priority	Slow Pulse	5 PC Pins
MSW5GMHCT	General	G.3	Med Priority	High Priority	Continuous	5 PC Pins
MSW5GMHFP	General	G.3	Med Priority	High Priority	Fast Pulse	5 PC Pins
MSW5GMHMP	General	G.3	Med Priority	High Priority	Medium Pulse	5 PC Pins
MSW5GMHSP	General	G.3	Med Priority	High Priority	Slow Pulse	5 PC Pins
MSW5*LHCT	See Note	G.3 & G.5	Low Priority	High Priority	Continuous	5 PC Pins
MSW5*LHFP	See Note	G.3 & G.5	Low Priority	High Priority	Fast Pulse	5 PC Pins
MSW5*LHMP	See Note	G.3 & G.5	Low Priority	High Priority	Medium Pulse	5 PC Pins
MSW5*LHSP	See Note	G.3 & G.5	Low Priority	High Priority	Slow Pulse	5 PC Pins
MSW5*LMCT	See Note	G.3 & G.5	Low Priority	Med Priority	Continuous	5 PC Pins
MSW5*LMFP	See Note	G.3 & G.5	Low Priority	Med Priority	Fast Pulse	5 PC Pins
MSW5*LMMP	See Note	G.3 & G.5	Low Priority	Med Priority	Medium Pulse	5 PC Pins
MSW5*LMSP	See Note	G.3 & G.5	Low Priority	Med Priority	Slow Pulse	5 PC Pins
MSW5*MHCT	See Note	G.3 & G.5	Med Priority	High Priority	Continuous	5 PC Pins
MSW5*MHFP	See Note	G.3 & G.5	Med Priority	High Priority	Fast Pulse	5 PC Pins
MSW5*MHMP	See Note	G.3 & G.5	Med Priority	High Priority	Medium Pulse	5 PC Pins
MSW5*MHSP	See Note	G.3 & G.5	Med Priority	High Priority	Slow Pulse	5 PC Pins

Part Number	Sound Type	IEC 60601-1-8 Table	1 st Tone Medical	2 nd Tone 2500 Hz	3 rd Tone 2500 Hz	Mounting Type
One Priority Medical Tone & Two Other Non-Medical Tones						
MSW5GLCFP	General	G.3	Low Priority	Continuous	Fast Pulse	5 PC Pins
MSW5GLCMP	General	G.3	Low Priority	Continuous	Medium Pulse	5 PC Pins
MSW5GLCSP	General	G.3	Low Priority	Continuous	Slow Pulse	5 PC Pins
MSW5GHCFP	General	G.3	High Priority	Continuous	Fast Pulse	5 PC Pins
MSW5GHCMP	General	G.3	High Priority	Continuous	Medium Pulse	5 PC Pins
MSW5GHCSP	General	G.3	High Priority	Continuous	Slow Pulse	5 PC Pins
MSW5*MCFP	See Note	G.3 & G.5	Med Priority	Continuous	Fast Pulse	5 PC Pins
MSW5*MCMP	See Note	G.3 & G.5	Med Priority	Continuous	Medium Pulse	5 PC Pins
MSW5*MCSP	See Note	G.3 & G.5	Med Priority	Continuous	Slow Pulse	5 PC Pins
MSW5*HCFP	See Note	G.3 & G.5	High Priority	Continuous	Fast Pulse	5 PC Pins
MSW5*HCMCP	See Note	G.3 & G.5	High Priority	Continuous	Medium Pulse	5 PC Pins
MSW5*HCSP	See Note	G.3 & G.5	High Priority	Continuous	Slow Pulse	5 PC Pins

Note: * = C (Cardiac), D (Drug or Fluid Delivery), E (Equipment/Supply Failure), P (Artificial Perfusion), T (Temp-Energy), or V (Ventilation)

23mm Speaker Alarms (With Circuitry)

MSS Series:

- IEC 60601-1-8 AMD2 (2020)
- Tones are generated internally (Tables 3 & 4)

Sound, Electrical, & Size Characteristics

Part Number Prefix	Typical Sound Level @ 10 cm (dBa)	Operating Voltage (Vdc)	Ave Current (mA)	Max Instant Current (mA)	Size Dia x Hgt (mm)
MSS5	85 to 95	4.5 to 5.5	150	400	23 x 13.5

Note: For continuous P/N MSS5M0, Average Current = 200 mA and Max Instant Current = 250 mA

Model Listing

Part Number	Sound Type	Mounting Type	IEC 60601-1-8 Table	Comment
Single Continuous Medical Tone				
MSS5M0	Continuous	2 PC Pins	4	User must control the on & off times to meet Tables 3 & 4

Part Number	Sound Type	IEC 60601-1-8 Tables	1 st Tone Medical	2 nd Tone Medical	3 rd Tone Medical	Mounting Type
Single Low Priority General Medical Tone						
MSS5GL	General	3 & 4	Low Priority	N/A	N/A	2 PC Pins

Single Low Priority General Medical Tone						
MSS5GM	General	3 & 4	Med Priority	N/A	N/A	2 PC Pins

Single Low Priority General Medical Tone						
MSS5GH	General	3 & 4	High Priority	N/A	N/A	2 PC Pins

Single Low Priority General Medical Tone						
MSS5G	General	3 & 4	Low Priority	Med Priority	High Priority	5 PC Pins

Part Number	Sound Type	IEC 60601-1-8 Tables	1 st Tone Medical	2 nd Tone Medical	3 rd Tone 2500 Hz	Mounting Type
Two Priority Medical Tones & One Other Non-Medical Tone						
MSS5GLHCT	General	3 & 4	Low Priority	High Priority	Continuous	5 PC Pins
MSS5GLHFP	General	3 & 4	Low Priority	High Priority	Fast Pulse	5 PC Pins
MSS5GLHMP	General	3 & 4	Low Priority	High Priority	Medium Pulse	5 PC Pins
MSS5GLHSP	General	3 & 4	Low Priority	High Priority	Slow Pulse	5 PC Pins
MSS5GLMCT	General	3 & 4	Low Priority	Med Priority	Continuous	5 PC Pins
MSS5GLMFP	General	3 & 4	Low Priority	Med Priority	Fast Pulse	5 PC Pins
MSS5GLMMP	General	3 & 4	Low Priority	Med Priority	Medium Pulse	5 PC Pins
MSS5GLMSP	General	3 & 4	Low Priority	Med Priority	Slow Pulse	5 PC Pins
MSS5GMHCT	General	3 & 4	Med Priority	High Priority	Continuous	5 PC Pins
MSS5GMHFP	General	3 & 4	Med Priority	High Priority	Fast Pulse	5 PC Pins
MSS5GMHMP	General	3 & 4	Med Priority	High Priority	Medium Pulse	5 PC Pins
MSS5GMHSP	General	3 & 4	Med Priority	High Priority	Slow Pulse	5 PC Pins

23mm Speaker Alarms (With Circuitry)

Model Listing (Con't)

Part Number	Sound Type	IEC 60601-1-8 Tables	1 st Tone Medical	2 nd Tone 2500 Hz	3 rd Tone 2500 Hz	Mounting Type
One Priority General Medical Tone & Two Other Non-Medical Tones						
MSS5GLCFP	General	3 & 4	Low Priority	Continuous	Fast Pulse	5 PC Pins
MSS5GLCMP	General	3 & 4	Low Priority	Continuous	Medium Pulse	5 PC Pins
MSSGLCSP	General	3 & 4	Low Priority	Continuous	Slow Pulse	5 PC Pins
MSS5GMCFP	General	3 & 4	Med Priority	Continuous	Fast Pulse	5 PC Pins
MSS5GMCMP	General	3 & 4	Med Priority	Continuous	Medium Pulse	5 PC Pins
MSS5GMCSP	General	3 & 4	Med Priority	Continuous	Slow Pulse	5 PC Pins
MSS5GHCFP	General	3 & 4	High Priority	Continuous	Fast Pulse	5 PC Pins
MSS5GHCMP	General	3 & 4	High Priority	Continuous	Medium Pulse	5 PC Pins
MSS5GHCSF	General	3 & 4	High Priority	Continuous	Slow Pulse	5 PC Pins

45mm Speaker Alarms (With Circuitry)

SBW Series:

- IEC 60601-1-8 AMD2 (2020): Annex G; Tables G.3 & G.5
- Uses the IEC Supplied .WAV Sound Files
- Features Volume Control via an External Resistor

Sound, Electrical, & Size Characteristics

Part Number Prefix	Typical Sound Level @ 10 cm (dBa)	Operating Voltage (Vdc)	Ave Current (mA)	Max Instant Current (mA)	Size Dia x Hgt (mm)
SBW12	95 to 105**	9 to 12	200	630	45.5 x 14.25

** All models have volume control via an external resistor. See the alarm data sheet for details.

Part Number Suffix	Termination Type	Part Size Dia x Hgt (mm)
PC	PC Pins**	44.5 x 14.25

** All models come with 7 PC pins, but on models with only one tone, not all PC Pins will need to be utilized. See the alarm data sheet for details.

Model Listing

Part Number	Sound Type	IEC 60601-1-8 Table	1 st Tone Medical	2 nd Tone Medical	3 rd Tone Medical	Mounting Type
Single Low Priority General Medical Tone						
SBW12GLPC	General	G.3	Low Priority	N/A	N/A	PC Pins

Single Medium Priority Medical Tone						
SBW12GMPC	General	G.3	Med Priority	N/A	N/A	PC Pins
SBW12*MPC	See Note	G.3 & G.5	Med Priority	N/A	N/A	PC Pins

Single High Priority Medical Tone						
SBW12GHPC	General	G.3	High Priority	N/A	N/A	PC Pins
SBW12*HPC	See Note	G.3 & G.5	High Priority	N/A	N/A	PC Pins

Three Priority General Medical Tones						
SBW12GPC	General	G.3	Low Priority	Med Priority	High Priority	PC Pins
SBW12*PC	See Note	G.3 & G.5	Low Priority	Med Priority	High Priority	PC Pins

Note: * = **C** (Cardiac), **D** (Drug or Fluid Delivery), **E** (Equipment/Supply Failure), **P** (Artificial Perfusion), **T** (Temp-Energy), or **V** (Ventilation)

45mm Speaker Alarms (With Circuitry)

Model Listing (Con't)

Part Number	Sound Type	IEC 60601-1-8 Table	1 st Tone Medical	2 nd Tone Medical	3 rd Tone 2500 Hz	Mounting Type
Two Priority Medical Tones & One Other Non-Medical Tone						
SBW12GLHCTPC	General	G.3	Low Priority	High Priority	Continuous	PC Pins
SBW12GLHFPPC	General	G.3	Low Priority	High Priority	Fast Pulse	PC Pins
SBW12GLHMPPC	General	G.3	Low Priority	High Priority	Medium Pulse	PC Pins
SBW12GLHSPPC	General	G.3	Low Priority	High Priority	Slow Pulse	PC Pins
SBW12GLMCTPC	General	G.3	Low Priority	Med Priority	Continuous	PC Pins
SBW12GLMFPPC	General	G.3	Low Priority	Med Priority	Fast Pulse	PC Pins
SBW12GLMMPPC	General	G.3	Low Priority	Med Priority	Medium Pulse	PC Pins
SBW12GLMSPPC	General	G.3	Low Priority	Med Priority	Slow Pulse	PC Pins
SBW12GMHCTPC	General	G.3	Med Priority	High Priority	Continuous	PC Pins
SBW12GMHFPPC	General	G.3	Med Priority	High Priority	Fast Pulse	PC Pins
SBW12GMHMPPC	General	G.3	Med Priority	High Priority	Medium Pulse	PC Pins
SBW12GMHSPPC	General	G.3	Med Priority	High Priority	Slow Pulse	PC Pins
SBW12*LHCTPC	See Note	G.3 & G.5	Low Priority	High Priority	Continuous	PC Pins
SBW12*LHFPPC	See Note	G.3 & G.5	Low Priority	High Priority	Fast Pulse	PC Pins
SBW12*LHMPPC	See Note	G.3 & G.5	Low Priority	High Priority	Medium Pulse	PC Pins
SBW12*LHSPPC	See Note	G.3 & G.5	Low Priority	High Priority	Slow Pulse	PC Pins
SBW12*LMCTPC	See Note	G.3 & G.5	Low Priority	Med Priority	Continuous	PC Pins
SBW12*LMFPPC	See Note	G.3 & G.5	Low Priority	Med Priority	Fast Pulse	PC Pins
SBW12*LMMPPC	See Note	G.3 & G.5	Low Priority	Med Priority	Medium Pulse	PC Pins
SBW12*LMSPPC	See Note	G.3 & G.5	Low Priority	Med Priority	Slow Pulse	PC Pins
SBW12*MHCTPC	See Note	G.3 & G.5	Med Priority	High Priority	Continuous	PC Pins
SBW12*MHFPPC	See Note	G.3 & G.5	Med Priority	High Priority	Fast Pulse	PC Pins
SBW12*MHMPPC	See Note	G.3 & G.5	Med Priority	High Priority	Medium Pulse	PC Pins
SBW12*MHSPPC	See Note	G.3 & G.5	Med Priority	High Priority	Slow Pulse	PC Pins

Part Number	Sound Type	IEC 60601-1-8 Table	1 st Tone Medical	2 nd Tone 2500 Hz	3 rd Tone 2500 Hz	Mounting Type
One Priority Medical Tone & Two Other Non-Medical Tones						
SBW12GLCFPPC	General	G.3	Low Priority	Continuous	Fast Pulse	PC Pins
SBW12GLCMPPC	General	G.3	Low Priority	Continuous	Medium Pulse	PC Pins
SBW12GLCSPPC	General	G.3	Low Priority	Continuous	Slow Pulse	PC Pins
SBW12GMCFFPC	General	G.3	Med Priority	Continuous	Fast Pulse	PC Pins
SBW12GCMPPC	General	G.3	Med Priority	Continuous	Medium Pulse	PC Pins
SBW12GMCSPPC	General	G.3	Med Priority	Continuous	Slow Pulse	PC Pins
SBW12GHCFPPC	General	G.3	High Priority	Continuous	Fast Pulse	PC Pins
SBW12GHCMPPC	General	G.3	High Priority	Continuous	Medium Pulse	PC Pins
SBW12GHCSPPC	General	G.3	High Priority	Continuous	Slow Pulse	PC Pins
SBW12*MCFPPC	See Note	G.3 & G.5	Med Priority	Continuous	Fast Pulse	PC Pins
SBW12*MCMPPC	See Note	G.3 & G.5	Med Priority	Continuous	Medium Pulse	PC Pins
SBW12*MCSPPC	See Note	G.3 & G.5	Med Priority	Continuous	Slow Pulse	PC Pins
SBW12*HCFPPC	See Note	G.3 & G.5	High Priority	Continuous	Fast Pulse	PC Pins
SBW12*HCMPPC	See Note	G.3 & G.5	High Priority	Continuous	Medium Pulse	PC Pins
SBW12*HCSPPC	See Note	G.3 & G.5	High Priority	Continuous	Slow Pulse	PC Pins

Note: * = C (Cardiac), D (Drug or Fluid Delivery), E (Equipment/Supply Failure), P (Artificial Perfusion), T (Temp-Energy), or V (Ventilation)

45mm Speaker Alarms (With Circuitry)

SBS Series:

- IEC 60601-1-8 AMD2 (2020)
- Tones are generated internally (Tables 3 & 4)

Sound, Electrical, & Size Characteristics

Part Number Prefix	Typical Sound Level @ 10 cm (dBa)	Operating Voltage (Vdc)	Ave Current (mA)	Max Instant Current (mA)	Size Dia x Hgt (mm)
SBS12	95 to 105	9 to 12	200	630	45.5 x 14.25

Note: For continuous part numbers, Ave Current = 300 mA and Max Instant Current = 400 mA

Part Number Suffix	Termination Type	Part Size Dia x Hgt (mm)
PC	PC Pins (2 to 5 pins)	44.5 x 14.25
FL	Flange with Bare Wires	64.5 x 14.25

Model Listing

Part Number	Sound Type	IEC 60601-1-8 Table	Mounting Type
Single Continuous Medical Tone			
SBS12M0PC	Continuous (see note)	4 (see note)	2 PC Pins
SBS12M0FL	Continuous (see note)	4 (see note)	Flange w/Bare Wires

Notes: Continuous tone models meet the freq. and rise & fall times listed in IEC 60601-1-8 Table 4, but the user must control the on & off times to meet the other requirements of Tables 3 & 4

Part Number	Sound Type	IEC 60601-1-8 Tables	1 st Tone Medical	2 nd Tone Medical	3 rd Tone Medical	Mounting Type
Single Low Priority General Medical Tone						
SBS12GLPC	General	3 & 4	Low Priority	N/A	N/A	2 PC Pins
SBS12GLFL	General	3 & 4	Low Priority	N/A	N/A	Flange w/Bare Wires

Single Medium Priority General Medical Tone						
SBS12GMPC	General	3 & 4	Med Priority	N/A	N/A	2 PC Pins
SBS12GMFL	General	3 & 4	Med Priority	N/A	N/A	Flange w/Bare Wires

Single High Priority General Medical Tone						
SBS12GHPC	General	3 & 4	High Priority	N/A	N/A	2 PC Pins
SBS12GHFL	General	3 & 4	High Priority	N/A	N/A	Flange w/Bare Wires

Three Priority General Medical Tones						
SBS12M1PC	General	3 & 4	Low Priority	Med Priority	High Priority	5 PC Pins

45mm Speaker Alarms (With Circuitry)

Model Listing (Con't)

Part Number	Sound Type	IEC 60601-1-8 Tables	1 st Tone Medical	2 nd Tone Medical	3 rd Tone 2500 Hz	Mounting Type
Two Priority General Medical Tones & One Other Non-Medical Tone						
SBS12GLHCTPC	General	3 & 4	Low Priority	High Priority	Continuous	5 PC Pins
SBS12GLHFPPC	General	3 & 4	Low Priority	High Priority	Fast Pulse	5 PC Pins
SBS12GLHMPPC	General	3 & 4	Low Priority	High Priority	Medium Pulse	5 PC Pins
SBS12GLHSPPC	General	3 & 4	Low Priority	High Priority	Slow Pulse	5 PC Pins
SBS12GLMCTPC	General	3 & 4	Low Priority	Med Priority	Continuous	5 PC Pins
SBS12GLMFPPC	General	3 & 4	Low Priority	Med Priority	Fast Pulse	5 PC Pins
SBS12GLMMPPC	General	3 & 4	Low Priority	Med Priority	Medium Pulse	5 PC Pins
SBS12GLMSPPC	General	3 & 4	Low Priority	Med Priority	Slow Pulse	5 PC Pins
SBS12GMHCTPC	General	3 & 4	Med Priority	High Priority	Continuous	5 PC Pins
SBS12GMHFPPC	General	3 & 4	Med Priority	High Priority	Fast Pulse	5 PC Pins
SBS12GMHMPPC	General	3 & 4	Med Priority	High Priority	Medium Pulse	5 PC Pins
SBS12GMHSPPC	General	3 & 4	Med Priority	High Priority	Slow Pulse	5 PC Pins

Part Number	Sound Type	IEC 60601-1-8 Tables	1 st Tone Medical	2 nd Tone 2500 Hz	3 rd Tone 2500 Hz	Mounting Type
One Priority General Medical Tone & Two Other Non-Medical Tones						
SBS12GLCFPPC	General	3 & 4	Low Priority	Continuous	Fast Pulse	5 PC Pins
SBS12GLCMPPC	General	3 & 4	Low Priority	Continuous	Medium Pulse	5 PC Pins
SBS12GLCSPPC	General	3 & 4	Low Priority	Continuous	Slow Pulse	5 PC Pins
SBS12GHCFPPC	General	3 & 4	High Priority	Continuous	Fast Pulse	5 PC Pins
SBS12GHCMPPC	General	3 & 4	High Priority	Continuous	Medium Pulse	5 PC Pins
SBS12GHCSPPC	General	3 & 4	High Priority	Continuous	Slow Pulse	5 PC Pins
SBS12GMCFPPC	General	3 & 4	Medium Priority	Continuous	Fast Pulse	5 PC Pins
SBS12GMCMPCC	General	3 & 4	Medium Priority	Continuous	Medium Pulse	5 PC Pins
SBS12GMCSPPC	General	3 & 4	Medium Priority	Continuous	Slow Pulse	5 PC Pins

45mm Piezo Transducer Alarms (With Circuitry)

SBT Series: IEC 60601-1-8 AMD2 (2020): Tables 3 & 4

Sound, Electrical, & Size Characteristics

Part Number Prefix	Typical Sound Level @ 10 cm (dBa)	Operating Voltage (Vdc)	Ave Current (mA)	Max Instant Current (mA)
SBT5	85 to 95	3.3 to 5	35	300
SBT12	85 to 95	9 to 12	25	75

Part Number Suffix	Termination Type	Part Size Dia x Hgt (mm)
PC	PC Pins	44.5 x 14.25
FL	Flange Mount with Wires	64.5 x 14.25

Model Listing

Part Number	Rated Voltage	Sound Type	IEC 60601-1-8 Table	Mounting Type
Single Continuous Medical Tone				
SBT5LM0PC	5 Vdc	Continuous	4 (see note)	2 PC Pins
SBT5LM0FL	5 Vdc	Continuous	4 (see note)	Flange w/Bare Wires
SBT12M0PC	12 Vdc	Continuous	4 (see note)	2 PC Pins
SBT12M0FL	12 Vdc	Continuous	4 (see note)	Flange w/Bare Wires

Note: Continuous tone models meet the freq. and rise & fall times listed in IEC 60601-1-8 Table 4, but the user must control the on & off times to meet the other requirements of Tables 3 & 4

Part Number	Rated Voltage	Sound Type	IEC 60601-1-8 Tables	1 st Tone Medical	2 nd Tone Medical	3 rd Tone Medical	Mounting Type
Single Low Priority General Medical Tone							
SBT5GLPC	5 Vdc	General	3 & 4	Low Priority	N/A	N/A	2 PC Pins
SBT5GLFL	5 Vdc	General	3 & 4	Low Priority	N/A	N/A	Flange w/Bare Wires
SBT12GLPC	12 Vdc	General	3 & 4	Low Priority	N/A	N/A	2 PC Pins
SBT12GLFL	12 Vdc	General	3 & 4	Low Priority	N/A	N/A	Flange w/Bare Wires
Single Medium Priority General Medical Tone							
SBT5GMPC	5 Vdc	General	3 & 4	Med Priority	N/A	N/A	2 PC Pins
SBT5GMFL	5 Vdc	General	3 & 4	Med Priority	N/A	N/A	Flange w/Bare Wires
SBT12GMPC	12 Vdc	General	3 & 4	Med Priority	N/A	N/A	2 PC Pins
SBT12GMFL	12 Vdc	General	3 & 4	Med Priority	N/A	N/A	Flange w/Bare Wires
Single High Priority General Medical Tone							
SBT5GHPC	5 Vdc	General	3 & 4	High Priority	N/A	N/A	2 PC Pins
SBT5GHFL	5 Vdc	General	3 & 4	High Priority	N/A	N/A	Flange w/Bare Wires
SBT12GHPC	12 Vdc	General	3 & 4	High Priority	N/A	N/A	2 PC Pins
SBT12GHFL	12 Vdc	General	3 & 4	High Priority	N/A	N/A	Flange w/Bare Wires

Part Number	Rated Voltage	Sound Type	IEC 60601-1-8 Tables	1 st Tone Medical	2 nd Tone Medical	3 rd Tone Medical	Mounting Type
Three Priority General Medical Tones							
SBT5LM1PC	5 Vdc	General	3 & 4	Low Priority	Med Priority	High Priority	5 PC Pins
SBT12M1PC	12 Vdc	General	3 & 4	Low Priority	Med Priority	High Priority	5 PC Pins

45mm Piezo Transducer Alarms (With Circuitry)

Model Listing (Con't)

Part Number	Rated Voltage	Sound Type	IEC 60601-1-8 Tables	1 st Tone Medical	2 nd Tone Medical	3 rd Tone 2500 Hz	Mounting Type
Two Priority General Medical Tones & One Other Non-Medical Tone							
SBT5GLHCTPC	5 Vdc	General	3 & 4	Low Priority	High Priority	Continuous	5 PC Pins
SBT5GLHFPPC	5 Vdc	General	3 & 4	Low Priority	High Priority	Fast Pulse	5 PC Pins
SBT5GLHMPPC	5 Vdc	General	3 & 4	Low Priority	High Priority	Medium Pulse	5 PC Pins
SBT5GLHSPPC	5 Vdc	General	3 & 4	Low Priority	High Priority	Slow Pulse	5 PC Pins
SBT5GLMCTPC	5 Vdc	General	3 & 4	Low Priority	Med Priority	Continuous	5 PC Pins
SBT5GLMFPPC	5 Vdc	General	3 & 4	Low Priority	Med Priority	Fast Pulse	5 PC Pins
SBT5GLMMPPC	5 Vdc	General	3 & 4	Low Priority	Med Priority	Medium Pulse	5 PC Pins
SBT5GLMSPPC	5 Vdc	General	3 & 4	Low Priority	Med Priority	Slow Pulse	5 PC Pins
SBT5GMHCTPC	5 Vdc	General	3 & 4	Med Priority	High Priority	Continuous	5 PC Pins
SBT5GMHFPPC	5 Vdc	General	3 & 4	Med Priority	High Priority	Fast Pulse	5 PC Pins
SBT5GMHMPPC	5 Vdc	General	3 & 4	Med Priority	High Priority	Medium Pulse	5 PC Pins
SBT5GMHSPPC	5 Vdc	General	3 & 4	Med Priority	High Priority	Slow Pulse	5 PC Pins
SBT12GLHCTPC	12 Vdc	General	3 & 4	Low Priority	High Priority	Continuous	5 PC Pins
SBT12GLHFPPC	12 Vdc	General	3 & 4	Low Priority	High Priority	Fast Pulse	5 PC Pins
SBT12GLHMPPC	12 Vdc	General	3 & 4	Low Priority	High Priority	Medium Pulse	5 PC Pins
SBT12GLHSPPC	12 Vdc	General	3 & 4	Low Priority	High Priority	Slow Pulse	5 PC Pins
SBT12GLMCTPC	12 Vdc	General	3 & 4	Low Priority	Med Priority	Continuous	5 PC Pins
SBT12GLMFPPC	12 Vdc	General	3 & 4	Low Priority	Med Priority	Fast Pulse	5 PC Pins
SBT12GLMMPPC	12 Vdc	General	3 & 4	Low Priority	Med Priority	Medium Pulse	5 PC Pins
SBT12GLMSPPC	12 Vdc	General	3 & 4	Low Priority	Med Priority	Slow Pulse	5 PC Pins
SBT12GMHCTPC	12 Vdc	General	3 & 4	Med Priority	High Priority	Continuous	5 PC Pins
SBT12GMHFPPC	12 Vdc	General	3 & 4	Med Priority	High Priority	Fast Pulse	5 PC Pins
SBT12GMHMPPC	12 Vdc	General	3 & 4	Med Priority	High Priority	Medium Pulse	5 PC Pins
SBT12GMHSPPC	12 Vdc	General	3 & 4	Med Priority	High Priority	Slow Pulse	5 PC Pins

Part Number	Rated Voltage	Sound Type	IEC 60601-1-8 Tables	1 st Tone Medical	2 nd Tone 2500 Hz	3 rd Tone 2500 Hz	Mounting Type
One Priority General Medical Tone & Two Other Non-Medical Tones							
SBT5GLCFPPC	5 Vdc	General	3 & 4	Low Priority	Continuous	Fast Pulse	5 PC Pins
SBT5GLCMPPC	5 Vdc	General	3 & 4	Low Priority	Continuous	Medium Pulse	5 PC Pins
SBT5GLCSPPC	5 Vdc	General	3 & 4	Low Priority	Continuous	Slow Pulse	5 PC Pins
SBT5GMCFPCC	5 Vdc	General	3 & 4	Med Priority	Continuous	Fast Pulse	5 PC Pins
SBT5GMCMPCC	5 Vdc	General	3 & 4	Med Priority	Continuous	Medium Pulse	5 PC Pins
SBT5GMCSPCC	5 Vdc	General	3 & 4	Med Priority	Continuous	Slow Pulse	5 PC Pins
SBT5GHCFPCC	5 Vdc	General	3 & 4	High Priority	Continuous	Fast Pulse	5 PC Pins
SBT5GHCMPPC	5 Vdc	General	3 & 4	High Priority	Continuous	Medium Pulse	5 PC Pins
SBT5GHCSPPC	5 Vdc	General	3 & 4	High Priority	Continuous	Slow Pulse	5 PC Pins
SBT12GLCFPPC	12 Vdc	General	3 & 4	Low Priority	Continuous	Fast Pulse	5 PC Pins
SBT12GLCMPPC	12 Vdc	General	3 & 4	Low Priority	Continuous	Medium Pulse	5 PC Pins
SBT12GLCSPPC	12 Vdc	General	3 & 4	Low Priority	Continuous	Slow Pulse	5 PC Pins
SBT12GMCFPPC	12 Vdc	General	3 & 4	Med Priority	Continuous	Fast Pulse	5 PC Pins
SBT12GMCMPCC	12 Vdc	General	3 & 4	Med Priority	Continuous	Medium Pulse	5 PC Pins
SBT12GMCSPCC	12 Vdc	General	3 & 4	Med Priority	Continuous	Slow Pulse	5 PC Pins
SBT12GHCFPPC	12 Vdc	General	3 & 4	High Priority	Continuous	Fast Pulse	5 PC Pins
SBT12GHCMPPC	12 Vdc	General	3 & 4	High Priority	Continuous	Medium Pulse	5 PC Pins
SBT12GHCSPPC	12 Vdc	General	3 & 4	High Priority	Continuous	Slow Pulse	5 PC Pins

Call 317-612-1000 or Visit www.mspindy.com for More Details