

Warning Tower Lights

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SIGNAL50 Tower Light components

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SIGNAL50 Warning Tower Lights From j. Auer

More features, approvals
and flexibility than
virtually any tower light
on the market

SIGNAL50 Warning Tower Lights from the J. Auer company are the perfect compliment to Sprecher + Schuh's world class industrial control product line. High grade, heavy duty and comprehensive, this 50mm space saving line is also flexible and extremely easy to assemble and install.

Best of class

In comparing SIGNAL50 Warning Tower Lights to competitive products from manufacturers including Patlite, IDEC, Federal Signal and Werma, the SIGNAL50 line offers more features, approvals and options than any of these major stack light manufacturers. See Sprecher + Schuh publication WTL-COMP for a side-by-side comparison.

Rugged construction for industrial applications

Heavy duty industrial polycarbonate is used to construct all light modules and bases for the SIGNAL50 line. A stainless steel, pole-mount base, set on a zinc die-cast metal foot is also available. The entire line meets UL Type 4 / 4X / 13 and IP65 guidelines for use indoors or out. No other manufacturer of competitive product offers this extensive range of environmental approvals.

Over 100 combinations of lenses, voltages and illumination types

Variety and interchangeability are standard with the SIGNAL50 line. Six lens colors are available (green, red, amber, blue, yellow and clear), more than any other major manufacturer. Light modules are offered in four different voltages including 12 & 24V AC/DC, 120V AC and 240V AC. Illumination types include incandescent, LED and strobe. A special flashing LED is also available.



Introducing a Quick Release Aluminum Tube Base Adapter

The Quick Release Mounting system foot adapter is a first for the signaling industry. The Quick Release Tube Base Adapter design allows a customer to remove the warning light stack while the base remains wired and fixed to the control panel for ease of shipping to the final destination. Refer to page J8 for ordering details. Quick Release Tube Base Adapter is available in six sizes from 10cm to 80cm (4" - 31.5")

New sound module expands choices

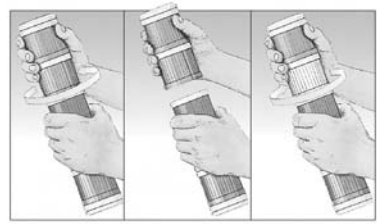
In addition to the many visual alert modules available with the SIGNAL50 line, a new Piezo sound module is now available. Choose either a Single Circuit, Selectable Tone Module (single or pulsing tone) or a Two Circuit Sound Module, used in applications where two types of audible alert are required to indicate different levels of machine status. Voltages include 12 & 24V AC/DC and 120 & 240V AC.



j.auer
S I G N A L G E R Ä T E

Features

- Modularly designed, versatile, flexible and powerful warning towers “moduleSINGAL50”
- Thoroughly tested and proven warning tower system (humidity, temperature, vibration, shock, etc.)
- UL Type 4/4X/13, IP 65
- PLC fit (leakage/inrush current)



Easy to operate bayonet locking system guarantees troublefree bulb change at any position maintaining total safety (fingerproof)



Safety screws for additional safety of modules against unauthorized opening

Light modules for bulbs and LED-bulbs (steady/flashing) and strobe (xenon) light modules

Combinations up to 5 modules

Piezo Buzzer Modules, up to 103 dB (A) sound pressure, internally or externally switchable

6 lens colors

Horizontal and vertical mounting possibilities

Lenses and housings made of impact-resistant polycarbonate

Tube mountings with aluminum or stainless steel tubes, 5-80 cm long (2"-31.5")

LED-bulbs in 6 colors, steady and flashing light

Pole Connection Boxes for extension of installation possibilities of pole mount assemblies, incl. magnetic mounting

Module contacts

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Quick Mounting System Foot Adapter **NEW**

Features

- Quick Mounting System Foot Adapter available in Black or Gray
- UL Type 4/4X/13, IP 65
- Same modularity as mentioned above
- With the exception of your desired light modules up to 5 high, the Quick Mounting System Foot Adapter includes all items shown. See ordering details on page J7.

Function

- The warning tower with pole mount is already electrically pre-wired
- The adapter base part is mounted on the machine, etc, and electrically connected
- The warning tower with foot adapter is inserted into the adapter base part and firmly mounted by twisting the fixing ring

- The warning tower is immediately fully operable
- ### Advantages
- Simple and cost saving disassembly of warning tower for machine transport
 - Quick cost saving installation of complete warning tower at client
 - Immediate function, no electrical connection required at client
 - Safe transport of warning tower (separately packed)

Plastic cap

Fixing ring




Adapter foot

Base adapter part (For mounting on machine, etc.)

Foot adapter in mounted condition (fixing ring is twisted for fixation)

Tube mounting with aluminum base, 10cm-80cm long

Light Modules

Description	Lens Color	Voltage	Catalog Number	Price
Steady ①② 	Amber	Universal voltage module. Accepts 12V...230V incandescent, LED or flashing LED (bulb not included.)	750 001 900	34
	Red		750 002 900	
	Clear		750 004 900	
	Blue		750 005 900	
	Green		750 006 900	
	Yellow		750 007 900	
Flashing ①②③ 	Amber	12-24V AC/DC	760 001 405	68
		120V AC	760 001 310	
		240V AC	760 001 313	
	Red	12-24V AC/DC	760 002 405	
		120V AC	760 002 310	
		240V AC	760 002 313	
	Clear	12-24V AC/DC	760 004 405	
		120V AC	760 004 310	
		240V AC	760 004 313	
	Blue	12-24V AC/DC	760 005 405	
		120V AC	760 005 310	
		240V AC	760 005 313	
	Green	12-24V AC/DC	760 006 405	
		120V AC	760 006 310	
		240V AC	760 006 313	
	Yellow	12-24V AC/DC	760 007 405	
		120V AC	760 007 310	
		240V AC	760 007 313	
Strobe  Xenon bulb included	Amber	12-24V AC/DC	770 001 405	148
		120V AC	770 001 310	
		240V AC	770 001 313	
	Red	12-24V AC/DC	770 002 405	
		120V AC	770 002 310	
		240V AC	770 002 313	
	Clear	12-24V AC/DC	770 004 405	
		120V AC	770 004 310	
		240V AC	770 004 313	
	Blue	12-24V AC/DC	770 005 405	
		120V AC	770 005 310	
		240V AC	770 005 313	
	Green	12-24V AC/DC	770 006 405	
		120V AC	770 006 310	
		240V AC	770 006 313	
	Yellow	12-24V AC/DC	770 007 405	
		120V AC	770 007 310	
		240V AC	770 007 313	

Light Modules Color Meanings ④

Color	Meaning/ Explanation	Action of operator
Red	emergency dangerous situation	immediate action for reacting to a dangerous situation
Amber/ Yellow	abnormal situation upcoming critical situation	monitor and/or action
Green	normal situation	optional
Blue	indication of situation requiring a defined action by the operator	conclusive action
White	neutral - no particular meaning for other situation to be used if doubts exist when to use red, yellow, green or blue	monitor

Steady Light Modules

Warning/indicator lights are used to warn the operator or to indicate that a defined action shall be initiated.

The colors RED, YELLOW/AMBER, GREEN and BLUE are usually used for this application.

The colors BLUE and CLEAR/WHITE are usually used for confirming an order or status or to confirm the end of a change or at time of change. The color GREEN may be used in some cases.

Flashing Light Modules

Flashing signals are used for additional differentiation or as additional information and for additionally emphasize something particular.




Flashing signals are particularly used for:

- causing attention
- prompting immediate action
- indicating a difference between target and actual condition
- indicating a process change (flashing while changing over)

① Light Module does not include bulb. Order bulb separately from Bulbs Table on page E5.
 ② If using LED bulbs, match the lens color of the light module to the emitting color of the LED bulb.
 ③ The flashing module accepts incandescent or LED steady bulbs only. The circuitry within the flashing module allows the bulb to flash ON and OFF continuously when powered.





④ Color meaning per EN 60204-1:1998

Bulbs

Description	Function	Color	Voltage	Catalog Number	Price
Incandescent Lamp 	Steady	Clear	12V AC/DC	890 010 904	4
			24V AC/DC	890 010 905	
			120V AC	890 010 910	
			240V AC	890 010 913	
Steady LED Lamp ① <i>(for use with steady module and flashing module only)</i> 	Steady	Amber	12V AC/DC	893 001 404	86
			24V AC/DC	893 001 405	
			120V AC	893 001 310	
			240V AC	893 001 313	
		Red	12V AC/DC	893 002 404	
			24V AC/DC	893 002 405	
			120V AC	893 002 310	
			240V AC	893 002 313	
		Clear	12V AC/DC	893 004 404	
			24V AC/DC	893 004 405	
			120V AC	893 004 310	
			240V AC	893 004 313	
		Blue	12V AC/DC	893 005 404	
			24V AC/DC	893 005 405	
			120V AC	893 005 310	
			240V AC	893 005 313	
		Green	12V AC/DC	893 006 404	
			24V AC/DC	893 006 405	
			120V AC	893 006 310	
			240V AC	893 006 313	
		Yellow	12V AC/DC	893 007 404	
			24V AC/DC	893 007 405	
			120V AC	893 007 310	
			240V AC	893 007 313	
Steady Flashing LED Lamp ① <i>(for use with steady module only)</i> 	Flashing	Amber	12V AC/DC	893 011 404	120
			24V AC/DC	893 011 405	
			120V AC	893 011 310	
			240V AC	893 011 313	
		Red	12V AC/DC	893 012 404	
			24V AC/DC	893 012 405	
			120V AC	893 012 310	
			240V AC	893 012 313	
		Clear	12V AC/DC	893 014 404	
			24V AC/DC	893 014 405	
			120V AC	893 014 310	
			240V AC	893 014 313	
		Blue	12V AC/DC	893 015 404	
			24V AC/DC	893 015 405	
			120V AC	893 015 310	
			240V AC	893 015 313	
		Green	12V AC/DC	893 016 404	
			24V AC/DC	893 016 405	
			120V AC	893 016 310	
			240V AC	893 016 313	
		Yellow	12V AC/DC	893 017 404	
			24V AC/DC	893 017 405	
			120V AC	893 017 310	
			240V AC	893 017 313	

① Always match the emitting color of the LED bulb to the lens color of the light module.

Sound Modules ③

Module	Description	Housing Color	Voltage	Catalog Number	Price
Single Circuit Single Tone or Pulsing Tone 	 Bottom view of Single Circuit module	Gray	12V AC/DC	781 100 404	99
			24V AC/DC	781 100 405	
			120V AC	781 100 310	
			240V AC	781 100 313	
	Single Circuit Sound Module 11 Select either single tone or pulsing via internal DIP-switch. Low or high volume is also selectable.	Black	12V AC/DC	781 500 404	
			24V AC/DC	781 500 405	
			120V AC	781 500 310	
			240V AC	781 500 313	
Dual Circuit Single Tone and Pulsing Tone 	 Bottom view of Dual Circuit module	Gray	12V AC/DC	782 100 404	106
			24V AC/DC	782 100 405	
			120V AC	782 100 310	
			240V AC	782 100 313	
	Dual Circuit Sound Module 12 Used in applications where two types or audible alert are required to indicate different levels of machine status (warning and stall for instance). Single tone is activated by one circuit and pulsing tone by the second circuit. Low or high volume is selectable by internal DIP-switch.	Black	12V AC/DC	782 500 404	
			24V AC/DC	782 500 405	
			120V AC	782 500 310	
			240V AC	782 500 313	



Sold by AA Electric 1-800-237-8274 Lakeland, FL • Lawrenceville, GA • Greensboro, NC • East Rutherford, NJ www.AAelectric.com

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- ❶ Sound Modules must be installed as the last component (top level) of the tower light assembly.
- ❷ Tower Light assemblies containing Dual Circuit Sound Modules may contain a maximum of four modules, consisting of three Light Modules and the Sound Module.
- ❸ Refer to pages J14 and J15 for sound module electrical schematics and dimensions.

Pole Mounting Bases ①

Description	Housing Color	Fastening/ Threading	Length ①	Catalog Number	Price
 <p>Pole Mount Base</p> <p><i>Plastic foot and cap with aluminum pole</i></p>	Gray	Screws	5cm	790 140 900	64
			10cm	790 142 900	64
			25cm	790 143 900	70
			40cm	790 144 900	76
			50cm	790 145 900	89
			60cm	790 146 900	89
			80cm	790 147 900	101
	Black	Screws	5cm	790 541 900	64
			10cm	790 542 900	64
			25cm	790 543 900	70
			40cm	790 544 900	76
			50cm	790 545 900	89
			60cm	790 546 900	89
			80cm	790 547 900	101
 <p><i>Zinc die-cast foot and cap with stainless steel pole</i></p>	Gray	Screws	5cm	790 151 900	123
			10cm	790 152 900	123
			25cm	790 153 900	145
			40cm	790 154 900	160
			50cm	790 155 900	179
			60cm	790 156 900	179
			80cm	790 157 900	218
	Black	Screws	5cm	790 551 900	123
			10cm	790 552 900	123
			25cm	790 553 900	145
			40cm	790 554 900	160
			50cm	790 555 900	179
			60cm	790 556 900	179
			80cm	790 557 900	218
 <p>NEW</p> <p><i>Pole mount base on aluminum tube with foot adapter for quick mounting</i></p>	Gray	Screws	10cm	790 182 900	181
			25cm	790 183 900	188
			40cm	790 184 900	200
			50cm	790 185 900	218
			60cm	790 186 900	222
			80cm	790 187 900	224
			Black	Screws	10cm
	25cm	790 583 900			188
	40cm	790 584 900			200
	50cm	790 585 900			218
	60cm	790 586 900			222
	80cm	790 587 900			224

① Tubes may be cut to exact length required.



Pole Mounting Bases (cont'd)

Description	Housing Color	Fastening/Threading	Length ①	Catalog Number	Price
 <p>NEW</p> <p>Pole mount base on aluminum tube for horizontal mounting with screw</p>	Gray	Screws	5cm	790 171 900	123
			10cm	790 172 900	125
			25cm	790 173 900	145
			40cm	790 174 900	160
			50cm	790 175 900	174
			60cm	790 176 900	179
			80cm	790 177 900	218
	Black	Screws	5cm	790 571 900	123
			10cm	790 572 900	125
			25cm	790 573 900	145
			40cm	790 574 900	160
			50cm	790 575 900	174
			60cm	790 576 900	179
			80cm	790 577 900	218
 <p>NEW</p> <p>Metal bracket and adapter set for vertical mounting (for use with 790 17...and 790...57 ...Only)</p>	Gray	Screws	~	200 400 900	31
	Black	Screws	~	200 800 900	31

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Surface Mounting Bases

Description	Housing Color	Fastening/Threading	Length ①	Catalog Number	Price	
 <p>Surface Mount (w/cap)</p> <p>Horizontal Surface</p>	Gray	PG16	~	790 110 900	38	
		M20	~	790 120 900		
		1/2" NPT	~	790 130 900		
	Black	Screws	PG16	~	790 510 900	38
			M20	~	790 520 900	
			1/2" NPT	~	790 530 900	
 <p>Vertical Surface</p>	Gray	Screws	~	790 140 900	44	
	Black	Screws	~	790 540 900	44	





Gray donates special order

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Junction Boxes (to be used with Pole Mount Bases only)

Description	Housing Color	Threading	Catalog Number	Price
	Gray	PG16	841 103 900	34
		M20	841 101 900	
		1/2" NPT	841 102 900	
	Black	PG16	841 503 900	34
		M20	841 501 900	
		1/2" NPT	841 502 900	
	Gray	PG16	841 123 900	96
		M20	841 121 900	
		1/2" NPT	841 122 900	
	Black	PG16	841 523 900	96
		M20	841 521 900	
		1/2" NPT	841 522 900	
	Gray	PG16	841 113 900	48
		M20	841 111 900	
		1/2" NPT	841 112 900	
	Black	PG16	841 513 900	48
		M20	841 511 900	
		1/2" NPT	841 512 900	

Accessories

Accessory	Description	For use with...	Catalog Number	Price
	Locking Screws (5) - Used top Light and Sound Modules from separating	All Modules	700 000 900	5
	Replacement Caps - Gray Black	All Modules	698 803 002 698 803 003	4
	Replacement Gaskets and O-rings (5 pieces per bag)	Pole Mount Base (gasket)	698 800 002	5
		Vertical Base (gasket)	698 800 000	5
		Surface Mount (gasket)	698 800 001	5
		Modules, bases and caps (O-rings)	698 800 003	5
	Incandescent Bulb Puller	Steady and Flashing Modules using incandescent bulbs	WTL-BULBPL	5

Gray donates special order

SIGNAL50 Warning Tower Lights – Pre-assembled Units

Ordering Instructions

- 1) Determine the number of levels (up to five) required in the Warning Tower Light (you will write the catalog number and price in the corresponding boxes below).
- 2) On the opposite page, choose the Base you require from Table A, and write the catalog code number and price adder in the "A" box.
- 3) Continue making selections for each colored box until the entire catalog number is complete.
- 4) Add all price adders and total your selections.

One Level Tower

Catalog Code Number → **WTL** –

A	B	C	D	E
\$	\$ 0	\$ 0	\$	\$ 0

Level One

Price Adder → = \$ _____

Two Level Tower

Catalog Code Number → **WTL** –

A	B	C	D	E	D	E
\$	\$ 0	\$ 0	\$	\$ 0	\$	\$ 0

Level One Level Two

Price Adder → = \$ _____

Three Level Tower

Catalog Code Number → **WTL** –

A	B	C	D	E	D	E	D	E
\$	\$ 0	\$ 0	\$	\$ 0	\$	\$ 0	\$	\$ 0

Level One Level Two Level Three

Price Adder → = \$ _____

Four Level Tower

Catalog Code Number → **WTL** –

A	B	C	D	E	D	E	D	E	D	E
\$	\$ 0	\$ 0	\$	\$ 0	\$	\$ 0	\$	\$ 0	\$	\$ 0

Level One Level Two Level Three Level Four

Price Adder → = \$ _____

Five Level Tower

Catalog Code Number → **WTL** –

A	B	C	D	E	D	E	D	E	D	E	D	E
\$	\$ 0	\$ 0	\$	\$ 0	\$	\$ 0	\$	\$ 0	\$	\$ 0	\$	\$ 0

Level One Level Two Level Three Level Four Level Five

Price Adder → = \$ _____

Example

Three Level Tower (as pictured)

Catalog Code Number → **WTL** –

A	B	C	D	E	D	E	D	E
L1	B	120	D	3	D	5	L	4
\$ 64	\$ 0	\$ 0	\$ 38	\$ 0	\$	\$ 0	\$ 154	\$ 0

Level One Level Two Level Three

Price Adder → = \$ 294

WTL-L1B120D3D5L4



Table A - Base Type ❶		
Catalog Code	Description	Price Adder
X	Modules only (no base)	0
SN	Surface Mount (1/2" NPT Threading)	38
SP	Surface Mount (PG16 Threading))	38
SM	Surface Mount (M20 Threading)	38
V	Vertical Mount	44
L	Pole Mount Base - 5cm [≈2"] aluminum tube with polycarbonate foot & cap	64
L1	Pole Mount Base - 10cm [≈4"] aluminum tube with polycarbonate foot & cap	64
L2	Pole Mount Base - 25cm [≈9-7/8"] aluminum tube with polycarbonate foot & cap	70
L4	Pole Mount Base - 40cm [≈15-3/4"] aluminum tube with polycarbonate foot & cap	76
L5	Pole Mount Base - 50cm [≈19-11/16"] aluminum tube with polycarbonate foot & cap	89
L6	Pole Mount Base - 60cm [≈23-5/8"] aluminum tube with polycarbonate foot & cap	89
L8	Pole Mount Base - 80cm [≈31-1/2"] aluminum tube with polycarbonate foot & cap	101
P	Pole Mount Base - 5cm [≈2"] stainless steel with zinc die-cast foot & cap	123
P1	Pole Mount Base - 10cm [≈4"] stainless steel with zinc die-cast foot & cap	123
P2	Pole Mount Base - 25cm [≈9-7/8"] stainless steel with zinc die-cast foot & cap	145
P4	Pole Mount Base - 40cm [≈15-3/4"] stainless steel with zinc die-cast foot & cap	160
P5	Pole Mount Base - 50cm [≈19-11/16"] stainless steel with zinc die-cast foot & cap	179
P6	Pole Mount Base - 60cm [≈23-5/8"] stainless steel with zinc die-cast foot & cap	179
P8	Pole Mount Base - 80cm [≈31-1/2"] stainless steel with zinc die-cast foot & cap	218

Table B - Base & Cap Color		
Catalog Code	Description	Price Adder
B	Black	0
G	Gray	0

Table C - Voltage		
Catalog Code	Description	Price Adder
12	12V AC/DC Full Voltage	0
24	24V AC/DC Full Voltage	0
120	120V AC Full Voltage	0
240	240V AC Full Voltage	0

Table D - Module Type		
Catalog Code	Description	Price Adder
D	Steady Incandescent	38
F	Flashing Incandescent	70
Y	Steady LED	120
L	Flashing LED ❷	152
B	Strobe	148
AS	Sound - single circuit, dual tone ❸	99
AD	Sound - dual circuit, dual tone ❸❹	106

Table E - Lens Color		
Catalog Code	Description	Price Adder
3	Green	0
4	Red	0
5	Amber	0
6	Blue	0
7	Clear	0
8	Yellow	0

- ❶ For a Pole Mount Base with Junction Box, order desired Pole Mount from this table and field install Junction Box as an accessory.
- ❷ Assembled as a Flashing Module with Steady LED.
- ❸ Sound Modules must be installed as the last component (top level) of the tower light assembly.
- ❹ Tower Light assemblies containing Dual Circuit Sound Modules may contain a maximum of four modules, consisting of three Light Modules and the Sound Module.

Technical Information

Module SIGNAL 50 Warning Tower Light

General Data

Conformity to Standards

UL 508; (UL File # E183287) - EN60947 - 5-1; EN 61000-6-2; EN50082-2

Approvals

UL, cUL, CE

Environmental Data

Protection Class

All Light Modules	IP65/Type 4, 4X, 13
All Sound Modules	IP65/Type 4, 4X, 13
All Bases	IP65/Type 4, 4X, 13

Temperature Rating - All Products

Operation	[°C]	-25...+50 (-13...+122°F)
Storage	[°C]	-40...+85 (-40...+185°F)

Mechanical Data

Shock and Vibration Resistance

Based on the weight and style of mounting; Tower Lights are subject to damage from shock and vibration. Listed below are reference guidelines for maximum acceptable conditions

		1 module stack	3 module stack	5 module stack
Surface mount base or 10cm pole base	[G]	150 shock	45	35
	[G]	5 vibration	1.5	0.75
Vertical base or 25cm pole base	[G]	95	30	20
	[G]	3.5	1.25	0.5
Recommended Wire Size	[mm ²]	0.5...1.5mm ² (22...14 AWG)		
Recommended Terminal Torque	[Nm]	0.87 (7 lb-in)		

Materials

Bases, caps, module housings	Polycarbonate (94 V-0)
Lenses	Polycarbonate (94 V-2)
Lamp socket	Polycarbonate (94 V-2)
Rubber seals and gaskets	Nitrile Rubber
Pole (for aluminum pole assembly)	Aluminum
Pole Base Footing (for aluminum pole base)	Glass-Filled Nylon 66
Conduit (for pole insulation)	Polystyrene/Polyphenylene Ether Blend
Mounting screw washers	Polypropylene

Certifications

UL/cUL File Number

All Products - E183287, Guide No. NKCR
Standard Bases, Light Modules and Sound Modules - EN 60947-5-1

Performance Ratings

		12V AC/DC	24V AC/DC	120V AC	240V AC
	Steady incandescent	0.5 MSCP	2.5 MSCP	3.0 MSCP	0.49 MSCP
		6.3 Lumens	31.4 Lumens	37.7 Lumens	6.2 Lumens
	Flashing incandescent	0.5 MSCP	2.5 MSCP	3.0 MSCP	0.49 MSCP
		6.3 Lumens	31.4 Lumens	37.7 Lumens	6.2 Lumens
Light Output	Strobe	1.5 Joules per lamp			
	Steady, Flashing Socket Mount LED Red	100...200 mcd			
	Steady, Flashing Socket Mount LED Green	725...950 mcd			
	Steady, Flashing Socket Mount LED Amber	160...320 mcd			
	Steady, Flashing Socket Mount LED Blue	180...210 mcd			
	Steady, Flashing Socket Mount LED White	680 mcd			

Technical Information

Operating Voltage

	12V AC/DC	24V AC/DC	120V AC	240V AC
Light modules and Sound Modules	12V AC/DC (±10%)	12V AC/DC (±10%)	110V AC 50Hz (±10%) 120V AC 60Hz (±10%)	230V AC 50Hz (±10%) 240V AC 60Hz (±10%)

Leakage Current Impact

Some light modules may not turn off completely when connected to solid state outputs which emit leakage current greater than 3mA. Shunting resistors can be used to eliminate the effect of leakage current.

Lamp Life Ratings (design life)

Average life under static, no vibration conditions, continuous operation

		12V AC/DC	24V AC/DC	120V AC	240V AC
Incandescent Modules ⇨	[h]	8000	7000	3000	1600
LED Module	[h]			100,000	
Strobe Module	[h]			15,000	
Sound Module	[h]			20,000	

Current Consumption

Modules		12V AC/DC	24V AC/DC	120V AC	240V AC	
Light Only Modules	Steady incandescent	[mA]	208	271	58	23
	Flashing incandescent	[mA]	208	271	58	23
	Steady or Flashing LED	[mA]	47	28	11	11
	Strobe	[mA]	95	60	55	30
Sounds Modules	Single tone sound modules	[mA]	12	25	33	33
	Two tone sound module	[mA]				

Flashing Frequency

Flashing incandescent	[num.per min]	120; Turn ON / Turn OFF = 1:1
Flashing LED lamp	[num.per min]	120; Turn ON / Turn OFF = 1:1
Strobe	[num.per min]	84
Sound Module-alternating mode	[num.per min]	120; Turn ON / Turn OFF = 1:1

DB Ratings (Sound Module)

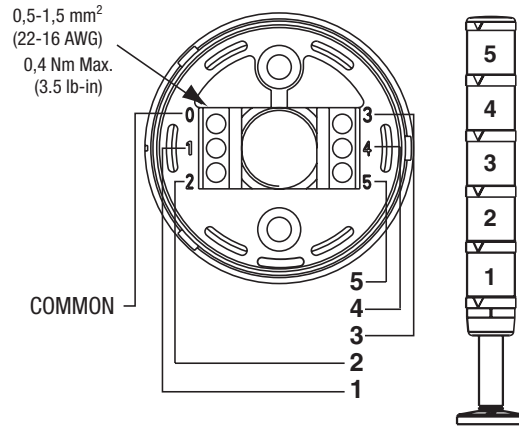
All dB (A) ratings determined at a distance of 1 meter from the sound module [dB] Maximum volume ranges from 98...103 dB (A) (volume adjusted by dip switch)

Weights

Modules	[g / oz.]	57 / 1.8	Pole Mount Base; aluminum; 25cm	[g / oz.]	148 / 4.5
Steady with incandescent lamp	[g / oz.]	65 / 2.1	Pole Mount Base; aluminum; 40cm	[g / oz.]	163 / 5.2
Steady with LED lamp	[g / oz.]	67 / 2.2	Pole Mount Base; aluminum; 50cm	[g / oz.]	206 / 6.6
Flashing with LED lamp	[g / oz.]	75 / 2.4	Pole Mount Base; aluminum; 60cm	[g / oz.]	234 / 7.5
Strobe- 12V...24V	[g / oz.]	70 / 2.3	Pole Mount Base; aluminum; 80cm	[g / oz.]	263 / 8.5
120V...240V	[g / oz.]	65 / 2.1	Pole Mount Base; steel; 5cm	[g / oz.]	320 / 10.3
Sound- 12V...24V	[g / oz.]	50 / 1.6	Pole Mount Base; steel; 10cm	[g / oz.]	255 / 8.2
120V...240V	[g / oz.]	60 / 1.9	Pole Mount Base; steel; 25cm	[g / oz.]	307 / 9.9
Mounting Bases (includes cap)			Pole Mount Base; steel; 40cm	[g / oz.]	462 / 14.9
Surface Mount base	[g / oz.]	40 / 1.3	Pole Mount Base; steel; 50cm	[g / oz.]	617 / 1.7
Vertical Mount base	[g / oz.]	70 / 2.3	Pole Mount Base; steel; 60cm	[g / oz.]	720 / 1.9
Pole Mount Base; aluminum; 5cm	[g / oz.]	105 / 3.4	Pole Mount Base; steel; 80cm	[g / oz.]	824 / 2.2
Pole Mount Base; aluminum 10cm	[g / oz.]	120 / 3.9	Junction Boxes		
			Junction Box; horizontal mounting	[g / oz.]	35 / 1.1
			Junction Box; vertical mounting	[g / oz.]	65 / 2.1
			Junction Box; magnetic base	[g / oz.]	270 / 8.7

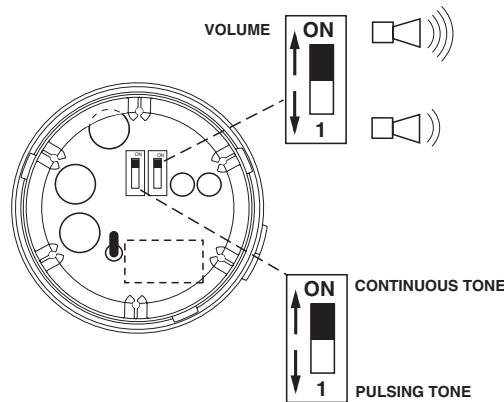
① First failures at about 35% of average design life. Failures under severe vibration at approximately 44% of average design life.

SIGNAL50 Terminal Connections

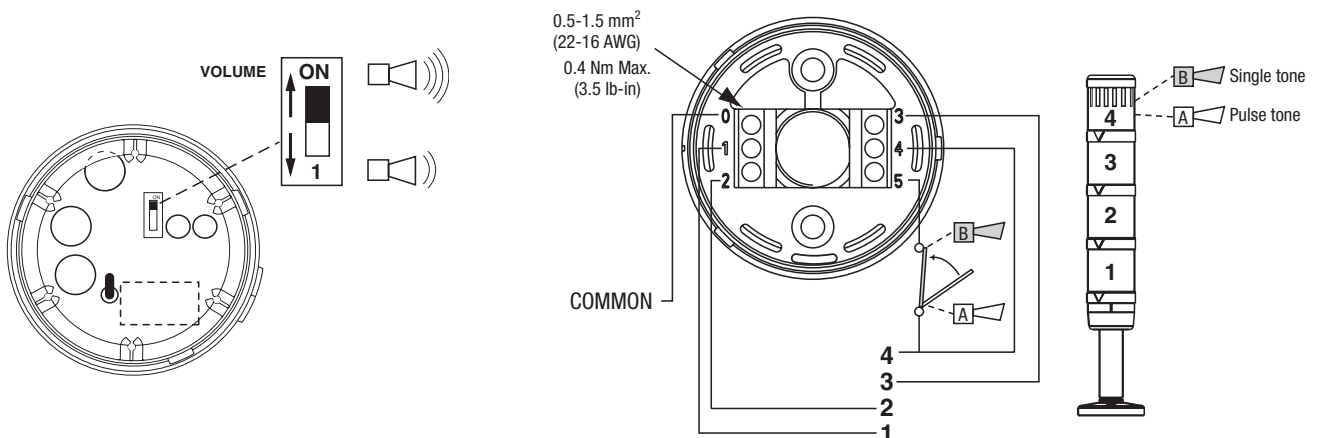


NOTE: Five light modules (or four light modules and one sound module) maximum per assembly.

Single Circuit Sound Module (781 100... & 781 500...)



Dual Circuit Sound Module (782 100... & 782 500...)



Sold by AA Electric 1-800-237-8274 Lakeland, FL • Lawrenceville, GA • Greensboro, NC • East Rutherford, NJ www.AAelectric.com

Signal 50 Mount Bases and Turndown Boxes

