

Stacklights—SL Series



## Product Description

The new Eaton SL7 and SL4 stacklights provide reliable control over all key processes and machine availability. Now available in two sizes, 70 mm (SL7) and 40 mm (SL4), the new stacklights are engineered to keep you informed about potential material requirements, downtime and hazards. Modules are available in a wide selection of audible, illuminating and mounting options that are well suited to adapt to any industrial application.

## Highly Modular and Versatile Line

- Easily configurable components
- Simple bayonet mounting mechanism for quick assembly
- Flexible mounting and lighting options
- Volume-adjustable alarms

## Optimal Performance in Rugged Applications

- All elements have IP66 and UL Type 4/4X/13 ratings for protection against strong jets of water
- Bright and efficient LEDs with a lifespan of up to 100,000 hours
- High-performance LEDs for maximum illumination in direct sunlight
- Acoustic modules with up to 100 dB sound levels
- Operating temperatures: –22° to +140°F (–30° to +60°C)

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## Features

- Six lens colors: red, amber, yellow, green, blue, white
- Continuous, flashing, strobe and multi-strobe lighting functions
- Mono-tone, dual-tone and multi-tone audible alarms
- LED or incandescent lighting options
- Control up to five modules on a single stack, 10 with dual-arm base
- 12V, 120 Vac and 230 Vac operating voltages

## Benefits

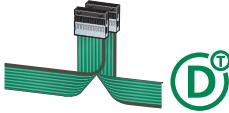
- Simplified twist-and-lock assembly, no tools required
- Compact components reduce inventory requirements and increase flexibility
- Versatile hardware for quick installation and minimized downtime
- New slim 40 mm size is ideal for applications with constrained space
- Lean automation with SmartWire-DT connectivity
- Ideal for indoor and outdoor usage

## Standards and Certifications

- UL 508—File No. E29184
- IEC/EN 60947-5-1
- CSA C22.2 No. 14-10
- CSA C22.2 No. 94-91
- CSA Class No. NKCR7



Product Overview

|                  |                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                           |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  | SL7                                                                                                                                                                                                                                                                                                                               | SL4                                                                                                                                                                                                       |
| Diameter         | 70 mm                                                                                                                                                                                                                                                                                                                             | 40 mm                                                                                                                                                                                                     |
|                  |                                                                                                                                                                                                                                                  |                                                                                                                         |
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## SL Series

## Component Identification

|                     | Continuous                                                                          | Flashing                                                                                                                                                                | Strobe                                                                                                                                                                  | Multi-Strobe                                                                                                                                                            |
|---------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Incandescent</b> |  | —                                                                                                                                                                       | —                                                                                                                                                                       | —                                                                                                                                                                       |
| <b>LED</b>          |  |   |   |   |

## SL7—Component Identification Descriptions

| Item                                                                                                                                                                                                                                                                                     | Item Number | Description                                                                                                            | Page Reference |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>Acoustic Modules</b>                                                                                                                                                                                                                                                                  |             |                                                                                                                        |                |
| Easy mounting with bayonet mount, place at highest position<br>Sound pressure up to 100 dB, adjustable with internal potentiometer<br>Operating mode: 100% DF (duty factor)<br>Degree of protection: UL Type 4/4X/13, IP66<br>Operational voltages: 24 Vac/Vdc, 110/120 Vac, 230/240 Vac | 1           | Continuous tone or pulsed tone, adjustable with internal DIP switches<br>Frequency: 2800 Hz                            | V7-T2-9        |
|                                                                                                                                                                                                                                                                                          | 2           | Continuous tone or pulsed tone; can be actuated externally; takes up to two inputs (two modules)<br>Frequency: 2800 Hz | V7-T2-9        |
|                                                                                                                                                                                                                                                                                          | 3           | Multi-tone (eight tones) adjustable with internal DIP switch<br>Frequency 500–2700 Hz                                  | V7-T2-9        |
| <b>Incandescent Bulb</b>                                                                                                                                                                                                                                                                 | 4           | Accessory                                                                                                              | V7-T2-19       |
| <b>Tool for Replacing Incandescent Bulb</b>                                                                                                                                                                                                                                              | 5           | Accessory                                                                                                              | V7-T2-19       |
| <b>Light Modules</b>                                                                                                                                                                                                                                                                     |             |                                                                                                                        |                |
| Easy mounting with bayonet mount, modules can be arranged in any order<br>Operating mode: 100% DF (duty factor)<br>Degree of protection: UL Type 4/4X/13, IP66<br>Max. 5 modules per stack or up to 10 via dual-arm base option                                                          |             |                                                                                                                        |                |
| <b>Light Module for Incandescent Bulb</b>                                                                                                                                                                                                                                                |             |                                                                                                                        |                |
| Continuous light                                                                                                                                                                                                                                                                         | 6           | BA15d socket, without incandescent bulb                                                                                | V7-T2-7        |
| <b>Light Modules with LED</b>                                                                                                                                                                                                                                                            |             |                                                                                                                        |                |
| Continuous light                                                                                                                                                                                                                                                                         | 7           |                                                                                                                        | V7-T2-6        |
| Flashing light                                                                                                                                                                                                                                                                           | 8           | Flashing frequency: 2 Hz                                                                                               | V7-T2-7        |
| Strobe light                                                                                                                                                                                                                                                                             | 9           | Flashing frequency: 1.4 Hz                                                                                             | V7-T2-7        |
| <b>Light Modules with High-Output LED</b>                                                                                                                                                                                                                                                |             |                                                                                                                        |                |
| Continuous light                                                                                                                                                                                                                                                                         | 10          |                                                                                                                        | V7-T2-8        |
| Strobe light                                                                                                                                                                                                                                                                             | 11          | High-performance LED, flashing frequency: 1.4 Hz                                                                       | V7-T2-8        |
| Strobe light, multi-strobe light                                                                                                                                                                                                                                                         | 12          | High-performance LED, with various strobe sequences<br>Flashing frequency: 1–2.6 Hz                                    | V7-T2-8        |
| <b>Base Modules</b>                                                                                                                                                                                                                                                                      |             |                                                                                                                        |                |
| Easy mounting with bayonet mount, includes cover plate, with spring-cage terminals<br>Degree of protection: UL Type 4/4X/13, IP66                                                                                                                                                        |             |                                                                                                                        |                |
| Base for mounting on both sides                                                                                                                                                                                                                                                          | 13          | Max. 2 x 5 modules that can be actuated individually                                                                   | V7-T2-11       |
| Base with aluminum tube and plastic foot                                                                                                                                                                                                                                                 | 14          | Aluminum tube 100 mm, 250 mm or 400 mm                                                                                 | V7-T2-10       |
| Base with aluminum tube and threaded 1/2 in NPT                                                                                                                                                                                                                                          | 15          | Aluminum tube 100 mm, 250 mm or 400 mm                                                                                 | V7-T2-10       |
| Base with external fixing holes                                                                                                                                                                                                                                                          | 16          | —                                                                                                                      | V7-T2-10       |
| Vertical base with bracket                                                                                                                                                                                                                                                               | 17          | —                                                                                                                      | V7-T2-11       |
| Base with internal (on the inside) fixing holes                                                                                                                                                                                                                                          | 18          | —                                                                                                                      | V7-T2-10       |
| Base with built-in fixing screws (pre-assembled)                                                                                                                                                                                                                                         | 19          | —                                                                                                                      | V7-T2-10       |
| Base with base adapter for slipping onto place (rapid mounting and wiring system)                                                                                                                                                                                                        | 20          | Aluminum tube 100 mm, 250 mm or 400 mm                                                                                 | V7-T2-10       |
| Base with base adapter for slipping onto place (rapid mounting and wiring system) and SmartWire-DT™ connection                                                                                                                                                                           | 21          | Aluminum tube 100 mm                                                                                                   | V7-T2-10       |
| <b>Mounting Bracket</b>                                                                                                                                                                                                                                                                  |             |                                                                                                                        |                |
| Bracket                                                                                                                                                                                                                                                                                  | 22          | Accessory                                                                                                              | V7-T2-19       |
| Bracket                                                                                                                                                                                                                                                                                  | 23          | Accessory, includes M20 cable gland                                                                                    | V7-T2-19       |

## Product Selection—SL7

## Complete Devices

2

SL7-100-L-R\_



## Continuous Light, LED, UL Type 4/4X/13, IP66

| Rated Operational Voltage (U <sub>o</sub> V) | Number of Modules | Color           | Function | Standard Pack | Catalog Number             |
|----------------------------------------------|-------------------|-----------------|----------|---------------|----------------------------|
| <b>Base Module with Foot and 100 mm Tube</b> |                   |                 |          |               |                            |
| 24 Vac/Vdc                                   | 2                 | Red/Green       |          | 1             | <b>SL7-100-L-RG-24LED</b>  |
|                                              | 3                 | Red/Amber/Green |          |               | <b>SL7-100-L-RAG-24LED</b> |

## Light Module with LED

SL7-L\_



## Continuous Light, UL Type 4/4X/13, IP66

| Rated Operational Voltage (U <sub>o</sub> V) | Color  | Function | Standard Pack | Catalog Number    |
|----------------------------------------------|--------|----------|---------------|-------------------|
| 24 Vac/Vdc                                   | Blue   |          | 1             | <b>SL7-L24-B</b>  |
|                                              | Green  |          |               | <b>SL7-L24-G</b>  |
|                                              | Red    |          |               | <b>SL7-L24-R</b>  |
|                                              | White  |          |               | <b>SL7-L24-W</b>  |
|                                              | Yellow |          |               | <b>SL7-L24-Y</b>  |
|                                              | Amber  |          |               | <b>SL7-L24-A</b>  |
| 110/120 Vac                                  | Blue   |          | 1             | <b>SL7-L120-B</b> |
|                                              | Green  |          |               | <b>SL7-L120-G</b> |
|                                              | Red    |          |               | <b>SL7-L120-R</b> |
|                                              | White  |          |               | <b>SL7-L120-W</b> |
|                                              | Yellow |          |               | <b>SL7-L120-Y</b> |
|                                              | Amber  |          |               | <b>SL7-L120-A</b> |
| 230/240 Vac                                  | Blue   |          | 1             | <b>SL7-L230-B</b> |
|                                              | Green  |          |               | <b>SL7-L230-G</b> |
|                                              | Red    |          |               | <b>SL7-L230-R</b> |
|                                              | White  |          |               | <b>SL7-L230-W</b> |
|                                              | Yellow |          |               | <b>SL7-L230-Y</b> |
|                                              | Amber  |          |               | <b>SL7-L230-A</b> |

## Light Module with LED, continued

SL7-BL\_

## Flashing Light, UL Type 4/4X/13, IP66, 2 Hz



| Rated Operational Voltage (U <sub>e</sub> V) | Color  | Function | Standard Pack | Catalog Number |
|----------------------------------------------|--------|----------|---------------|----------------|
| 24 Vac/Vdc                                   | Blue   |          | 1             | SL7-BL24-B     |
|                                              | Green  |          |               | SL7-BL24-G     |
|                                              | Red    |          |               | SL7-BL24-R     |
|                                              | White  |          |               | SL7-BL24-W     |
|                                              | Yellow |          |               | SL7-BL24-Y     |
|                                              | Amber  |          |               | SL7-BL24-A     |
| 110/120 Vac                                  | Blue   |          | 1             | SL7-BL120-B    |
|                                              | Green  |          |               | SL7-BL120-G    |
|                                              | Red    |          |               | SL7-BL120-R    |
|                                              | White  |          |               | SL7-BL120-W    |
|                                              | Yellow |          |               | SL7-BL120-Y    |
|                                              | Amber  |          |               | SL7-BL120-A    |
| 230/240 Vac                                  | Blue   |          | 1             | SL7-BL230-B    |
|                                              | Green  |          |               | SL7-BL230-G    |
|                                              | Red    |          |               | SL7-BL230-R    |
|                                              | White  |          |               | SL7-BL230-W    |
|                                              | Yellow |          |               | SL7-BL230-Y    |
|                                              | Amber  |          |               | SL7-BL230-A    |

SL7-FL\_

## Strobe Light, UL Type 4/4X/13, IP66, 1.4 Hz



| Rated Operational Voltage (U <sub>e</sub> V) | Color  | Function | Standard Pack | Catalog Number |
|----------------------------------------------|--------|----------|---------------|----------------|
| 24 Vac/Vdc                                   | Blue   |          | 1             | SL7-FL24-B     |
|                                              | Green  |          |               | SL7-FL24-G     |
|                                              | Red    |          |               | SL7-FL24-R     |
|                                              | White  |          |               | SL7-FL24-W     |
|                                              | Yellow |          |               | SL7-FL24-Y     |
|                                              | Amber  |          |               | SL7-FL24-A     |
| 110/120 Vac                                  | Blue   |          | 1             | SL7-FL120-B    |
|                                              | Green  |          |               | SL7-FL120-G    |
|                                              | Red    |          |               | SL7-FL120-R    |
|                                              | White  |          |               | SL7-FL120-W    |
|                                              | Yellow |          |               | SL7-FL120-Y    |
|                                              | Amber  |          |               | SL7-FL120-A    |
| 230/240 Vac                                  | Blue   |          | 1             | SL7-FL230-B    |
|                                              | Green  |          |               | SL7-FL230-G    |
|                                              | Red    |          |               | SL7-FL230-R    |
|                                              | White  |          |               | SL7-FL230-W    |
|                                              | Yellow |          |               | SL7-FL230-Y    |
|                                              | Amber  |          |               | SL7-FL230-A    |

## SL7 Light Module with High-Output LED

2

SL7-L24-\_\_

## Continuous Light, UL Type 4/4X/13, IP66



| Rated Operational Voltage (U <sub>0</sub> V)             | Color  | Function                                                                          | Standard Pack | Catalog Number      |
|----------------------------------------------------------|--------|-----------------------------------------------------------------------------------|---------------|---------------------|
| <b>High-Performance LED for Maximum Signaling Effect</b> |        |                                                                                   |               |                     |
| 24 Vac/Vdc                                               | Blue   |  | 1             | <b>SL7-L24-B-HP</b> |
|                                                          | Green  |                                                                                   |               | <b>SL7-L24-G-HP</b> |
|                                                          | Red    |                                                                                   |               | <b>SL7-L24-R-HP</b> |
|                                                          | White  |                                                                                   |               | <b>SL7-L24-W-HP</b> |
|                                                          | Yellow |                                                                                   |               | <b>SL7-L24-Y-HP</b> |
|                                                          | Amber  |                                                                                   |               | <b>SL7-L24-A-HP</b> |

SL7-FL24-\_\_-HP

## Strobe Light, UL Type 4/4X/13, IP66



| Rated Operational Voltage (U <sub>0</sub> V)                     | Color  | Function                                                                          | Standard Pack | Catalog Number       |
|------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|---------------|----------------------|
| <b>High-Performance LED for Maximum Signaling Effect, 1.4 Hz</b> |        |                                                                                   |               |                      |
| 24 Vac/Vdc                                                       | Blue   |  | 1             | <b>SL7-FL24-B-HP</b> |
|                                                                  | Green  |                                                                                   |               | <b>SL7-FL24-G-HP</b> |
|                                                                  | Red    |                                                                                   |               | <b>SL7-FL24-R-HP</b> |
|                                                                  | White  |                                                                                   |               | <b>SL7-FL24-W-HP</b> |
|                                                                  | Yellow |                                                                                   |               | <b>SL7-FL24-Y-HP</b> |
|                                                                  | Amber  |                                                                                   |               | <b>SL7-FL24-A-HP</b> |

SL7-FL24-\_\_-HPM

## Multi-Strobe Light, UL Type 4/4X/13, IP66



| Rated Operational Voltage (U <sub>0</sub> V)                       | Color  | Function                                                                            | Standard Pack | Catalog Number        |
|--------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|---------------|-----------------------|
| <b>High-Performance LED for Maximum Signaling Effect, 1–2.6 Hz</b> |        |                                                                                     |               |                       |
| 24 Vac/Vdc                                                         | Blue   |  | 1             | <b>SL7-FL24-B-HPM</b> |
|                                                                    | Green  |                                                                                     |               | <b>SL7-FL24-G-HPM</b> |
|                                                                    | Red    |                                                                                     |               | <b>SL7-FL24-R-HPM</b> |
|                                                                    | White  |                                                                                     |               | <b>SL7-FL24-W-HPM</b> |
|                                                                    | Yellow |                                                                                     |               | <b>SL7-FL24-Y-HPM</b> |
|                                                                    | Amber  |                                                                                     |               | <b>SL7-FL24-A-HPM</b> |

## SL7 Light Module for Incandescent Bulb

SL7-L-\_\_

## Continuous Light, UL Type 4/4X/13, IP66

For incandescent bulb selection, see **Page V7-T2-19**.

| Rated Operational Voltage (U <sub>0</sub> V)                 | Color  | Function                                                                            | Standard Pack | Catalog Number |
|--------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|---------------|----------------|
| <b>Without Light Elements, Incandescent Bulb, Maximum 7W</b> |        |                                                                                     |               |                |
| <250 Vac/Vdc                                                 | Blue   |  | 1             | <b>SL7-L-B</b> |
|                                                              | Green  |                                                                                     |               | <b>SL7-L-G</b> |
|                                                              | Red    |                                                                                     |               | <b>SL7-L-R</b> |
|                                                              | White  |                                                                                     |               | <b>SL7-L-W</b> |
|                                                              | Yellow |                                                                                     |               | <b>SL7-L-Y</b> |
|                                                              | Amber  |                                                                                     |               | <b>SL7-L-A</b> |

## SL7 Acoustic Modules

## SL7-AP\_

**Continuous Tone or Pulsed Tone, UL Type 4/4X/13, IP66** <sup>①</sup>

Adjustable with internal DIP switches.

Sound pressure 100 dB, adjustable with internal potentiometer.  
f = 2800 Hz.

| Rated Operational Voltage (U <sub>e</sub> V) | Rated Operational Current (I <sub>e</sub> mA) | Color | Function                                                                          | Sound Type                                                                          | Standard Pack | Catalog Number   |
|----------------------------------------------|-----------------------------------------------|-------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|------------------|
| 24 Vac/Vdc                                   | Maximum 92                                    | Black |  |  | 1             | <b>SL7-AP24</b>  |
| 110/120 Vac                                  | Maximum 41                                    | Black |                                                                                   |                                                                                     |               | <b>SL7-AP120</b> |
| 230/240 Vac                                  | Maximum 43                                    | Black |                                                                                   |                                                                                     |               | <b>SL7-AP230</b> |

## SL7-AP\_-E

**Continuous Tone or Pulsed Tone, External Actuation, UL Type 4/4X/13, IP66** <sup>①</sup>

Assigned two inputs (two modules).

Sound pressure 100 dB, adjustable with internal potentiometer.  
f = 2800 Hz.

| Rated Operational Voltage (U <sub>e</sub> V) | Rated Operational Current (I <sub>e</sub> mA) | Color | Function                                                                          | Sound Type                                                                          | Standard Pack | Catalog Number     |
|----------------------------------------------|-----------------------------------------------|-------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|--------------------|
| 24 Vac/Vdc                                   | Maximum 92                                    | Black |  |  | 1             | <b>SL7-AP24-E</b>  |
| 110/120 Vac                                  | Maximum 41                                    | Black |                                                                                   |                                                                                     |               | <b>SL7-AP120-E</b> |
| 230/240 Vac                                  | Maximum 43                                    | Black |                                                                                   |                                                                                     |               | <b>SL7-AP230-E</b> |

## SL7-AP\_-M

**Multi-Tone; Eight Tones, UL Type 4/4X/13, IP66** <sup>①</sup>

Adjustable with internal DIP switch.

Sound pressure 100 dB, adjustable with internal potentiometer.  
f = 500–2700 Hz.

| Rated Operational Voltage (U <sub>e</sub> V) | Rated Operational Current (I <sub>e</sub> mA) | Color | Function                                                                            | Sound Type                                                                            | Standard Pack | Catalog Number     |
|----------------------------------------------|-----------------------------------------------|-------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------|--------------------|
| 24 Vac/Vdc                                   | Maximum 115                                   | Black |  |  | 1             | <b>SL7-AP24-M</b>  |
| 110/120 Vac                                  | Maximum 45                                    | Black |                                                                                     |                                                                                       |               | <b>SL7-AP120-M</b> |
| 230/240 Vac                                  | Maximum 43                                    | Black |                                                                                     |                                                                                       |               | <b>SL7-AP230-M</b> |

**Note**<sup>①</sup> Place only at the highest position on a pole.

## SL7 Base Modules

2

## For Horizontal Mounting—Includes Cover, Maximum 5 Modules

|                                                                                                          | Description                                                                     | Tube Length | Color      | Standard Pack | For use with ...                                    | Catalog Number      |
|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------|------------|---------------|-----------------------------------------------------|---------------------|
| <b>SL7-CB-__</b><br>    | Base with aluminum tube and plastic foot<br>Spring-loaded terminals             | 100 mm      | Black      | 1             | SL7-L-...                                           | <b>SL7-CB-100</b>   |
|                                                                                                          |                                                                                 | 250 mm      | aluminum   |               | SL7-BL-...                                          | <b>SL7-CB-250</b>   |
|                                                                                                          |                                                                                 |             | color tube |               | SL7-FL-...                                          |                     |
|                                                                                                          |                                                                                 | 400 mm      |            |               | SL7-AP-...                                          | <b>SL7-CB-400</b>   |
| <b>SL7-CB-T-__</b><br>  | Base with aluminum tube and 3/4 in NPT threaded base<br>Spring-loaded terminals | 100 mm      | Black      | 1             | SL7-L-...                                           | <b>SL7-CB-T-100</b> |
|                                                                                                          |                                                                                 | 250 mm      | aluminum   |               | SL7-BL-...                                          | <b>SL7-CB-T-250</b> |
|                                                                                                          |                                                                                 |             | color tube |               | SL7-FL-...                                          |                     |
|                                                                                                          |                                                                                 | 400 mm      |            |               | SL7-AP-...                                          | <b>SL7-CB-T-400</b> |
| <b>SL7-CB-IMH</b><br> | Base with internal (on the inside) fixing holes<br>Spring-loaded terminals      | —           | Black      | 1             | SL7-L-...<br>SL7-BL-...<br>SL7-FL-...<br>SL7-AP-... | <b>SL7-CB-IMH</b>   |
| <b>SL7-CB-IMS</b><br> | Base with built-in (pre-assembled) fixing screws<br>Spring-loaded terminals     | —           | Black      | 1             | SL7-L-...<br>SL7-BL-...<br>SL7-FL-...<br>SL7-AP-... | <b>SL7-CB-IMS</b>   |
| <b>SL7-CB-EMH</b><br> | Base with external fixing holes<br>Spring-loaded terminals                      | —           | Black      | 1             | SL7-L-...<br>SL7-BL-...<br>SL7-FL-...<br>SL7-AP-... | <b>SL7-CB-EMH</b>   |

## SL7 Base Modules, continued

## For Horizontal Mounting—Includes Cover, Maximum 5 Modules, continued

|                                                                                                                                                                                           | Description                                                                                                                                                                                                                                         | Tube Length | Color      | Standard Pack | For use with ... | Catalog Number     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------|---------------|------------------|--------------------|
| <b>SL7-FMS_</b><br>                                                                                      | Base with base adapter for slipping onto place (rapid mounting and wiring system)<br>Screw terminals                                                                                                                                                | 100 mm      | Black      | 1             | SL7-L-...        | <b>SL7-FMS-100</b> |
|                                                                                                                                                                                           |                                                                                                                                                                                                                                                     | 250 mm      | aluminum   |               | SL7-BL-...       | <b>SL7-FMS-250</b> |
|                                                                                                                                                                                           |                                                                                                                                                                                                                                                     |             | color tube |               | SL7-FL-...       |                    |
|                                                                                                                                                                                           |                                                                                                                                                                                                                                                     | 400 mm      |            |               | SL7-AP-...       | <b>SL7-FMS-400</b> |
| <b>SL7-SWD</b><br><br> | Base with base adapter for slipping onto place (rapid mounting and wiring system)<br>Blade terminal SWD4-8MF2<br>Maximum 0.3A per module<br>External power supply connectable (24 Vdc)<br>Configurable with SWD-Assist (planning and ordering help) | 100 mm      | —          | 1             | SL7-L-...        | <b>SL7-SWD</b>     |
|                                                                                                                                                                                           |                                                                                                                                                                                                                                                     |             |            |               | SL7-BL-...       |                    |
|                                                                                                                                                                                           |                                                                                                                                                                                                                                                     |             |            |               | SL7-FL-...       |                    |
|                                                                                                                                                                                           |                                                                                                                                                                                                                                                     |             |            |               | SL7-AP-...       |                    |

## SL7-CB-FW

## For Vertical Mounting—Includes Cover, Maximum 5 Modules



| Description                                           | Color | Standard Pack | For use with ...                                    | Catalog Number   |
|-------------------------------------------------------|-------|---------------|-----------------------------------------------------|------------------|
| Vertical base with bracket<br>Spring-loaded terminals | Black | 1             | SL7-L-...<br>SL7-BL-...<br>SL7-FL-...<br>SL7-AP-... | <b>SL7-CB-FW</b> |

## SL7-CB-D

## For Mounting on Both Sides—Includes Cover, Maximum 2 x 5 Modules

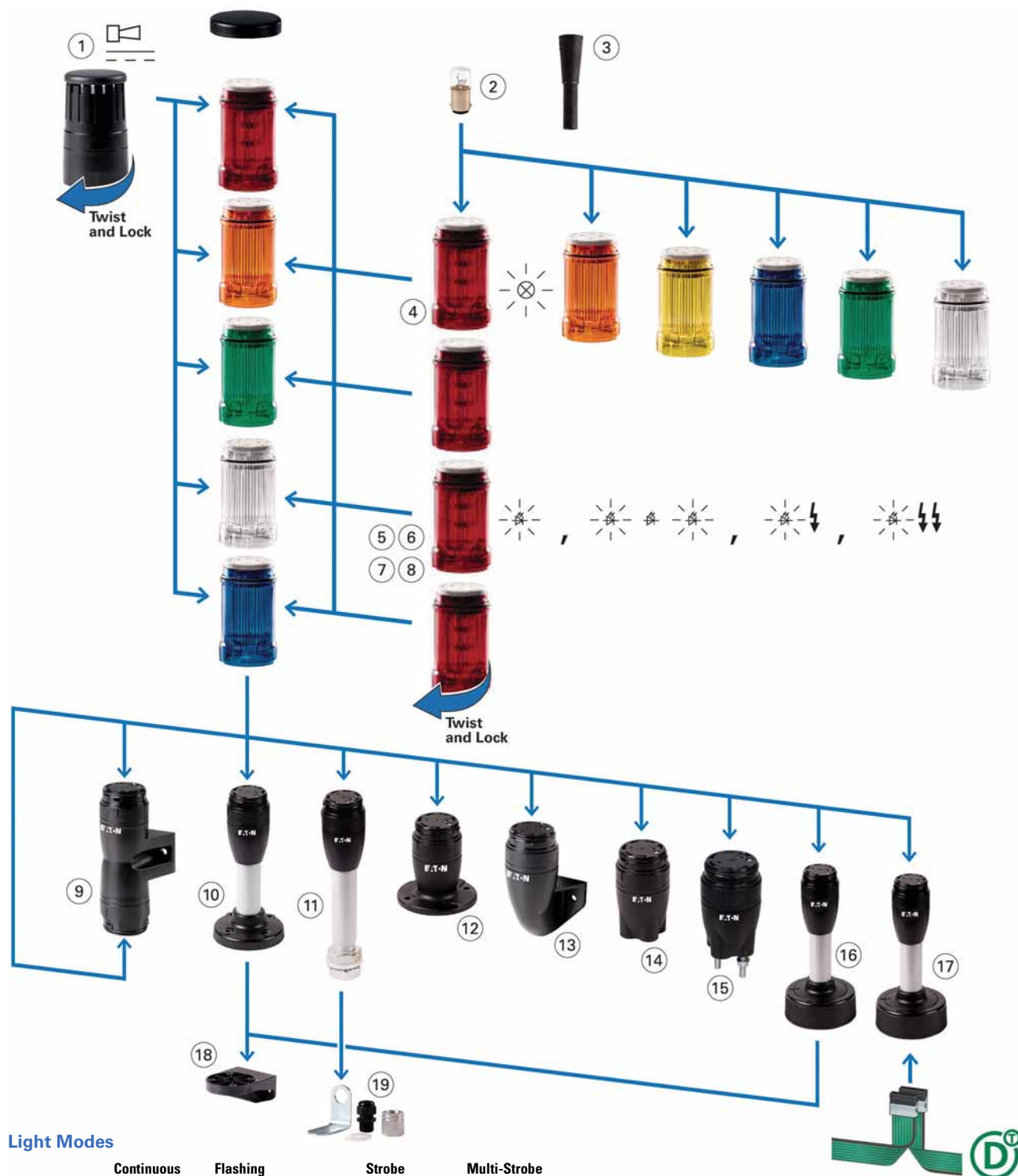


| Description                                                | Color | Standard Pack | For use with ...                                    | Catalog Number  |
|------------------------------------------------------------|-------|---------------|-----------------------------------------------------|-----------------|
| Base with external fixing holes<br>Spring-loaded terminals | Black | 1             | SL7-L-...<br>SL7-BL-...<br>SL7-FL-...<br>SL7-AP-... | <b>SL7-CB-D</b> |

## Component Identification—SL4

## Component Identification

2



## Light Modes

|              | Continuous | Flashing | Strobe | Multi-Strobe |
|--------------|------------|----------|--------|--------------|
| Incandescent | ☀          | —        | —      | —            |
| LED          | ☀          | ☀☀☀      | ☀⚡     | ☀⚡⚡          |

## SL4—Component Identification Descriptions

| Item                                                                                                                                                                                                                                                                                           | Item Number | Description                                                                                 | Page Reference |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------|----------------|
| <b>Acoustic Modules</b>                                                                                                                                                                                                                                                                        |             |                                                                                             |                |
| Sound pressure 80 dB, adjustable with internal potentiometer, frequency 4000 Hz<br>Easy mounting with bayonet mount, set up as highest module<br>Permanently integrated cover plate<br>Operating mode: 100% DF (duty factor)<br>Degree of protection: UL Type 4/4X/13, IP66                    | 1           | Continuous tone or pulsed tone, adjustable with internal DIP switches<br>Frequency: 2800 Hz | V7-T2-16       |
| <b>Incandescent Bulb</b>                                                                                                                                                                                                                                                                       | 2           | Accessory                                                                                   | V7-T2-19       |
| <b>Tool for Replacing Incandescent Bulb</b>                                                                                                                                                                                                                                                    | 3           | Accessory                                                                                   | V7-T2-19       |
| <b>Light Modules</b>                                                                                                                                                                                                                                                                           |             |                                                                                             |                |
| Easy mounting with bayonet mount, modules can be arranged in any order<br>Without light element (incandescent bulb with BA15d socket),<br>easy mounting with bayonet mount.<br>Operating mode: 100% DF (duty factor)<br>Flashing frequency 2 Hz<br>Degree of protection: UL Type 4/4X/13, IP66 |             |                                                                                             |                |
| <b>Light Module for Incandescent Bulb</b>                                                                                                                                                                                                                                                      |             |                                                                                             |                |
| Continuous light                                                                                                                                                                                                                                                                               | 4           | BA15d socket, without incandescent bulb                                                     | V7-T2-16       |
| <b>Light Modules with LED</b>                                                                                                                                                                                                                                                                  |             |                                                                                             |                |
| Continuous light                                                                                                                                                                                                                                                                               | 5           |                                                                                             | V7-T2-14       |
| Flashing light                                                                                                                                                                                                                                                                                 | 6           | Flashing frequency: 2 Hz                                                                    | V7-T2-15       |
| Strobe light                                                                                                                                                                                                                                                                                   | 7           | Flashing frequency: 1.4 Hz                                                                  | V7-T2-15       |
| Strobe light, multi-strobe light                                                                                                                                                                                                                                                               | 8           | High-performance LED, with various strobe sequences<br>Flashing frequency: 1–2.6 Hz         | V7-T2-16       |
| <b>Base Modules</b>                                                                                                                                                                                                                                                                            |             |                                                                                             |                |
| Easy mounting with bayonet mount, includes cover plate, with spring-cage terminals<br>Degree of protection: UL Type 4/4X/13, IP66                                                                                                                                                              |             |                                                                                             |                |
| Base for mounting on both sides                                                                                                                                                                                                                                                                | 9           | Max. 2 x 5 modules that can be actuated individually                                        | V7-T2-17       |
| Base with aluminum tube and plastic foot                                                                                                                                                                                                                                                       | 10          | Aluminum tube 100 mm, 250 mm or 400 mm                                                      | V7-T2-17       |
| Base with aluminum tube and threaded 1/2 in NPT                                                                                                                                                                                                                                                | 11          | Aluminum tube 100 mm, 250 mm or 400 mm                                                      | V7-T2-17       |
| Base with external fixing holes                                                                                                                                                                                                                                                                | 12          | —                                                                                           | V7-T2-17       |
| Vertical base with bracket                                                                                                                                                                                                                                                                     | 13          | —                                                                                           | V7-T2-17       |
| Base with internal (on the inside) fixing holes                                                                                                                                                                                                                                                | 14          | —                                                                                           | V7-T2-17       |
| Base with built-in fixing screws (pre-assembled)                                                                                                                                                                                                                                               | 15          | —                                                                                           | V7-T2-17       |
| Base with base adapter for slipping onto place (rapid mounting and wiring system)                                                                                                                                                                                                              | 16          | Aluminum tube 100 mm, 250 mm or 400 mm                                                      | V7-T2-17       |
| Base with base adapter for slipping onto place (rapid mounting and wiring system) and SmartWire-DT™ connection                                                                                                                                                                                 | 17          | Aluminum tube 100 mm                                                                        | V7-T2-17       |
| <b>Mounting Bracket</b>                                                                                                                                                                                                                                                                        |             |                                                                                             |                |
| Bracket                                                                                                                                                                                                                                                                                        | 18          | Accessory                                                                                   | V7-T2-19       |
| Bracket                                                                                                                                                                                                                                                                                        | 19          | Accessory, includes M20 cable gland                                                         | V7-T2-19       |

## Product Selection—SL4

## 2

## Complete Devices

SL4-100-L-R\_



## Continuous Light, LED, UL Type 4/4X/13, IP66

| Rated Operational Voltage (U <sub>e</sub> V) | Number of Modules | Color           | Function | Standard Pack | Catalog Number             |
|----------------------------------------------|-------------------|-----------------|----------|---------------|----------------------------|
| <b>Base Module with Foot and 100 mm Tube</b> |                   |                 |          |               |                            |
| 24 Vac/Vdc                                   | 2                 | Red/Green       |          | 1             | <b>SL4-100-L-RG-24LED</b>  |
|                                              | 3                 | Red/Amber/Green |          |               | <b>SL4-100-L-RAG-24LED</b> |

## Light Module with LED

SL4-L\_



## Continuous Light, UL Type 4/4X/13, IP66

| Rated Operational Voltage (U <sub>e</sub> V) | Color  | Function | Standard Pack | Catalog Number    |
|----------------------------------------------|--------|----------|---------------|-------------------|
| 24 Vac/Vdc                                   | Blue   |          | 1             | <b>SL4-L24-B</b>  |
|                                              | Green  |          |               | <b>SL4-L24-G</b>  |
|                                              | Red    |          |               | <b>SL4-L24-R</b>  |
|                                              | White  |          |               | <b>SL4-L24-W</b>  |
|                                              | Yellow |          |               | <b>SL4-L24-Y</b>  |
|                                              | Amber  |          |               | <b>SL4-L24-A</b>  |
| 110/120 Vac                                  | Blue   |          | 1             | <b>SL4-L120-B</b> |
|                                              | Green  |          |               | <b>SL4-L120-G</b> |
|                                              | Red    |          |               | <b>SL4-L120-R</b> |
|                                              | White  |          |               | <b>SL4-L120-W</b> |
|                                              | Yellow |          |               | <b>SL4-L120-Y</b> |
|                                              | Amber  |          |               | <b>SL4-L120-A</b> |
| 230/240 Vac                                  | Blue   |          | 1             | <b>SL4-L230-B</b> |
|                                              | Green  |          |               | <b>SL4-L230-G</b> |
|                                              | Red    |          |               | <b>SL4-L230-R</b> |
|                                              | White  |          |               | <b>SL4-L230-W</b> |
|                                              | Yellow |          |               | <b>SL4-L230-Y</b> |
|                                              | Amber  |          |               | <b>SL4-L230-A</b> |

## Light Module with LED, continued

SL4-BL\_

## Flashing Light, UL Type 4/4X/13, IP66, 2 Hz



| Rated Operational Voltage (U <sub>e</sub> V) | Color  | Function | Standard Pack | Catalog Number |
|----------------------------------------------|--------|----------|---------------|----------------|
| 24 Vac/Vdc                                   | Blue   |          | 1             | SL4-BL24-B     |
|                                              | Green  |          |               | SL4-BL24-G     |
|                                              | Red    |          |               | SL4-BL24-R     |
|                                              | White  |          |               | SL4-BL24-W     |
|                                              | Yellow |          |               | SL4-BL24-Y     |
|                                              | Amber  |          |               | SL4-BL24-A     |
| 110/120 Vac                                  | Blue   |          | 1             | SL4-BL120-B    |
|                                              | Green  |          |               | SL4-BL120-G    |
|                                              | Red    |          |               | SL4-BL120-R    |
|                                              | White  |          |               | SL4-BL120-W    |
|                                              | Yellow |          |               | SL4-BL120-Y    |
|                                              | Amber  |          |               | SL4-BL120-A    |
| 230/240 Vac                                  | Blue   |          | 1             | SL4-BL230-B    |
|                                              | Green  |          |               | SL4-BL230-G    |
|                                              | Red    |          |               | SL4-BL230-R    |
|                                              | White  |          |               | SL4-BL230-W    |
|                                              | Yellow |          |               | SL4-BL230-Y    |
|                                              | Amber  |          |               | SL4-BL230-A    |

SL4-FL\_

## Strobe Light, UL Type 4/4X/13, IP66, 1.4 Hz



| Rated Operational Voltage (U <sub>e</sub> V) | Color  | Function | Standard Pack | Catalog Number |
|----------------------------------------------|--------|----------|---------------|----------------|
| 24 Vac/Vdc                                   | Blue   |          | 1             | SL4-FL24-B     |
|                                              | Green  |          |               | SL4-FL24-G     |
|                                              | Red    |          |               | SL4-FL24-R     |
|                                              | White  |          |               | SL4-FL24-W     |
|                                              | Yellow |          |               | SL4-FL24-Y     |
|                                              | Amber  |          |               | SL4-FL24-A     |
| 110/120 Vac                                  | Blue   |          | 1             | SL4-FL120-B    |
|                                              | Green  |          |               | SL4-FL120-G    |
|                                              | Red    |          |               | SL4-FL120-R    |
|                                              | White  |          |               | SL4-FL120-W    |
|                                              | Yellow |          |               | SL4-FL120-Y    |
|                                              | Amber  |          |               | SL4-FL120-A    |
| 230/240 Vac                                  | Blue   |          | 1             | SL4-FL230-B    |
|                                              | Green  |          |               | SL4-FL230-G    |
|                                              | Red    |          |               | SL4-FL230-R    |
|                                              | White  |          |               | SL4-FL230-W    |
|                                              | Yellow |          |               | SL4-FL230-Y    |
|                                              | Amber  |          |               | SL4-FL230-A    |

## Light Module with LED, continued

2

SL4-FL24-\_-M



## Multi-Strobe Light, UL Type 4/4X/13, IP66

| Rated Operational Voltage (U <sub>e</sub> V)                                      | Color  | Function | Standard Pack | Catalog Number      |
|-----------------------------------------------------------------------------------|--------|----------|---------------|---------------------|
| <b>LED for Effective Signaling Effect With Various Strobe Sequences, 1–2.6 Hz</b> |        |          |               |                     |
| 24 Vac/Vdc                                                                        | Blue   |          | 1             | <b>SL4-FL24-B-M</b> |
|                                                                                   | Green  |          |               | <b>SL4-FL24-G-M</b> |
|                                                                                   | Red    |          |               | <b>SL4-FL24-R-M</b> |
|                                                                                   | White  |          |               | <b>SL4-FL24-W-M</b> |
|                                                                                   | Yellow |          |               | <b>SL4-FL24-Y-M</b> |
|                                                                                   | Amber  |          |               | <b>SL4-FL24-A-M</b> |

## SL4 Light Module for Incandescent Bulb

SL4-L-\_-



## Continuous Light, UL Type 4/4X/13, IP66

For incandescent bulb selection, see **Page V7-T2-19**.

| Rated Operational Voltage (U <sub>e</sub> V)                 | Color  | Function | Standard Pack | Catalog Number |
|--------------------------------------------------------------|--------|----------|---------------|----------------|
| <b>Without Light Elements, Incandescent Bulb, Maximum 4W</b> |        |          |               |                |
| <250 Vac/Vdc                                                 | Blue   |          | 1             | <b>SL4-L-B</b> |
|                                                              | Green  |          |               | <b>SL4-L-G</b> |
|                                                              | Red    |          |               | <b>SL4-L-R</b> |
|                                                              | White  |          |               | <b>SL4-L-W</b> |
|                                                              | Yellow |          |               | <b>SL4-L-Y</b> |
|                                                              | Amber  |          |               | <b>SL4-L-A</b> |

## SL4 Acoustic Modules

SL4-AP\_-



## Continuous Tone or Pulsed Tone, UL Type 4/4X/13, IP66

Adjustable with internal DIP switches.

Sound pressure 80 dB, adjustable with internal potentiometer.

f = 4000 Hz.

| Rated Operational Voltage (U <sub>e</sub> V)         | Rated Operational Current (I <sub>e</sub> mA) | Color | Function | Sound Type | Standard Pack | Catalog Number   |
|------------------------------------------------------|-----------------------------------------------|-------|----------|------------|---------------|------------------|
| <b>Place only at the highest position on a pole.</b> |                                               |       |          |            |               |                  |
| 24 Vac/Vdc                                           | Maximum 39                                    | Black |          |            | 1             | <b>SL4-AP24</b>  |
| 110/120 Vac                                          | Maximum 21                                    | Black |          |            |               | <b>SL4-AP120</b> |
| 230/240 Vac                                          | Maximum 21                                    | Black |          |            |               | <b>SL4-AP230</b> |

## SL4 Base Modules

## For Horizontal Mounting—Includes Cover, Maximum 5 Modules

|                                                                                                            | Description                                                                     | Tube Length | Color      | Standard Pack | For use with ...                                    | Catalog Number       |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------|------------|---------------|-----------------------------------------------------|----------------------|
|  <b>SL4-PIB-_<br/>_</b>   | Base with aluminum tube and plastic foot<br>Spring-loaded terminals             | 100 mm      | Black      | 1             | SL4-L-...                                           | <b>SL4-PIB-100</b>   |
|                                                                                                            |                                                                                 | 250 mm      | aluminum   |               | SL4-BL-...                                          | <b>SL4-PIB-250</b>   |
|                                                                                                            |                                                                                 |             | color tube |               | SL4-FL-...                                          |                      |
|                                                                                                            |                                                                                 | 400 mm      |            |               | SL4-AP-...                                          | <b>SL4-PIB-400</b>   |
|  <b>SL4-PIB-T-_<br/>_</b> | Base with aluminum tube and 3/4 in NPT threaded base<br>Spring-loaded terminals | 100 mm      | Black      | 1             | SL4-L-...                                           | <b>SL4-PIB-T-100</b> |
|                                                                                                            |                                                                                 | 250 mm      | aluminum   |               | SL4-BL-...                                          | <b>SL4-PIB-T-250</b> |
|                                                                                                            |                                                                                 |             | color tube |               | SL4-FL-...                                          |                      |
|                                                                                                            |                                                                                 | 400 mm      |            |               | SL4-AP-...                                          | <b>SL4-PIB-T-400</b> |
|  <b>SL4-PIB-IMH</b>     | Base with internal (on the inside) fixing holes<br>Spring-loaded terminals      | —           | Black      | 1             | SL4-L-...<br>SL4-BL-...<br>SL4-FL-...<br>SL4-AP-... | <b>SL4-PIB-IMH</b>   |
|  <b>SL4-PIB-IMS</b>     | Base with built-in (pre-assembled) fixing screws<br>Spring-loaded terminals     | —           | Black      | 1             | SL4-L-...<br>SL4-BL-...<br>SL4-FL-...<br>SL4-AP-... | <b>SL4-PIB-IMS</b>   |
|  <b>SL4-PIB-EMH</b>     | Base with external fixing holes<br>Spring-loaded terminals                      | —           | Black      | 1             | SL4-L-...<br>SL4-BL-...<br>SL4-FL-...<br>SL4-AP-... | <b>SL4-PIB-EMH</b>   |

## SL4 Base Modules, continued

2

## For Horizontal Mounting—Includes Cover, Maximum 5 Modules, continued

| Description                                                                                                                                                                                                  | Tube Length | Color      | Standard Pack | For use with ...         | Catalog Number     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------|---------------|--------------------------|--------------------|
| <b>SL4-FMS_</b><br><br>Base with base adapter for slipping onto place (rapid mounting and wiring system)<br>Screw terminals | 100 mm      | Black      | 1             | SL4-L-...                | <b>SL4-FMS-100</b> |
|                                                                                                                                                                                                              | 250 mm      | aluminum   |               | SL4-BL-...               | <b>SL4-FMS-250</b> |
|                                                                                                                                                                                                              | 400 mm      | color tube |               | SL4-FL-...<br>SL4-AP-... | <b>SL4-FMS-400</b> |

|                                                                                                                                                                                                                                                                                                                                                            |        |   |   |                                                     |                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---|---|-----------------------------------------------------|----------------|
| <b>SL4-SWD</b><br><br>Base with base adapter for slipping onto place (rapid mounting and wiring system)<br>Blade terminal SWD4-8MF2<br>Maximum 0.3A per module<br>External power supply connectable (24 Vdc)<br>Configurable with SWD-Assist (planning and ordering help) | 100 mm | — | 1 | SL4-L-...<br>SL4-BL-...<br>SL4-FL-...<br>SL4-AP-... | <b>SL4-SWD</b> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---|---|-----------------------------------------------------|----------------|



## SL4-PIB-FW For Vertical Mounting—Includes Cover, Maximum 5 Modules

| Description                                                                                                                                                        | Color | Standard Pack | For use with ... | Catalog Number    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------|------------------|-------------------|
| <b>SL4-PIB-FW</b><br><br>One-sided base with bracket<br>Spring-loaded terminals | Black | 1             | SL4-L-...        | <b>SL4-PIB-FW</b> |
|                                                                                                                                                                    |       |               | SL4-BL-...       |                   |
|                                                                                                                                                                    |       |               | SL4-FL-...       |                   |
|                                                                                                                                                                    |       |               | SL4-AP-...       |                   |

## SL4-PIB-D For Mounting on Both Sides—Includes Cover, Maximum 2 x 5 Modules

| Description                                                                                                                                                           | Color | Standard Pack | For use with ... | Catalog Number   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------|------------------|------------------|
| <b>SL4-PIB-D</b><br><br>Base with external fixing holes<br>Spring-loaded terminals | Black | 1             | SL4-L-...        | <b>SL4-PIB-D</b> |
|                                                                                                                                                                       |       |               | SL4-BL-...       |                  |
|                                                                                                                                                                       |       |               | SL4-FL-...       |                  |
|                                                                                                                                                                       |       |               | SL4-AP-...       |                  |

## Accessories

### SL7 and SL4 Series

#### Mounting Brackets

##### SL7/4-FW



#### Mounting Brackets for Vertical Mounting, Plastic

| Standard Pack | For Use With ...          | Catalog Number  |
|---------------|---------------------------|-----------------|
| 1             | SL4-PIB-...<br>SL7-CB-... | <b>SL7/4-FW</b> |

##### SL7/4-FW-T



#### M20 Cable Gland for Vertical Mounting, Metal (Includes Mounting Bracket)

| Standard Pack | For Use With ...              | Catalog Number    |
|---------------|-------------------------------|-------------------|
| 1             | SL4-PIB-T-...<br>SL7-CB-T-... | <b>SL7/4-FW-T</b> |

#### Incandescent Bulb Tool

##### SL7/4-BET



#### Tool for Replacing Incandescent Bulb

| Standard Pack | For Use With ...       | Catalog Number   |
|---------------|------------------------|------------------|
| 1             | SL7-L-...<br>SL4-L-... | <b>SL7/4-BET</b> |

#### Incandescent Bulbs

##### SL7 Series

##### SL7-L12



#### Incandescent Bulbs, Mounting: Ba15d

| Lifespan (h) | Rated Operational Voltage (U <sub>e</sub> V) | Power (Watts) | Standard Pack | For Use With ... | Catalog Number  |
|--------------|----------------------------------------------|---------------|---------------|------------------|-----------------|
| 3000         | 12                                           | 5             | 1             | SL7-L-...        | <b>SL7-L12</b>  |
|              | 24                                           | 6.5           |               |                  | <b>SL7-L24</b>  |
|              | 120                                          | 7             |               |                  | <b>SL7-L120</b> |
|              | 230                                          | 6.5           |               |                  | <b>SL7-L230</b> |

##### SL4 Series

##### SL4-L12



#### Incandescent Bulbs, Mounting: Ba15d

| Lifespan (h) | Rated Operational Voltage (U <sub>e</sub> V) | Power (Watts) | Standard Pack | For Use With ... | Catalog Number  |
|--------------|----------------------------------------------|---------------|---------------|------------------|-----------------|
| 3000         | 12                                           | 4             | 1             | SL4-L-...        | <b>SL4-L12</b>  |
|              | 24                                           |               |               |                  | <b>SL4-L24</b>  |
|              | 120                                          |               |               |                  | <b>SL4-L120</b> |
|              | 230                                          |               |               |                  | <b>SL4-L230</b> |

## Technical Data and Specifications

## 2

### SL7 Series

#### SL7 General Specifications

| Description                                         | Specification                                                                  |
|-----------------------------------------------------|--------------------------------------------------------------------------------|
| Standards                                           | IEC/EN 60947-5-1                                                               |
| Lens color                                          | Blue, green, red, clear, yellow, amber                                         |
| Number of signal elements                           | Max. 5 with standard base<br>Max. 10 with base for mounting on both sides      |
| <b>Mechanical Ratings</b>                           |                                                                                |
| Shock (IEC 68-2-27)                                 | 11 ms, 15g                                                                     |
| Vibration (IEC 68-2-6)                              | 20 sweeps 10–150 Hz, 1g                                                        |
| <b>Climate Conditions</b>                           |                                                                                |
| Climatic proofing                                   | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60069-2-30 |
| Operating temperature                               | –22° to +140°F (–30° to +60°C)                                                 |
| Storage temperature                                 | –22° to +185°F (–30° to +85°C)                                                 |
| <b>Environmental Ratings</b>                        |                                                                                |
| IEC degree of protection                            | UL Type 4/4X/13, IP66<br>IEC/EN 60529                                          |
| Protection type UL                                  | Type 4/4X/13                                                                   |
| <b>Materials</b>                                    |                                                                                |
| Cover                                               | Polycarbonate                                                                  |
| Lenses                                              | Polycarbonate                                                                  |
| Stacklight base                                     | Polycarbonate                                                                  |
| Tubes                                               | Aluminum                                                                       |
| <b>Terminal Capacity</b>                            |                                                                                |
| Solid or flexible conductor                         | 0.13–2.5 mm <sup>2</sup>                                                       |
| Flexible with ferrule with plastic collar           | 0.25–1.5 mm <sup>2</sup><br>AWG 24–AWG 14                                      |
| <b>Contacts</b>                                     |                                                                                |
| Rated impulse withstand voltage (U <sub>imp</sub> ) | 4000 Vac                                                                       |
| Rated insulation voltage (U <sub>i</sub> )          | 250V                                                                           |
| Overvoltage category/pollution degree               | III/3                                                                          |

## SL7 Light Module Specifications

|                            | Unit | SL7-L-...-...                                              | SL7-BL-...-...                                             | SL7-FL-...-...                                             | SL7-L24-...-HP          | SL7-FL24-...-HP         | SL7-FL24-...-HPM        | SL7-L-...                           |
|----------------------------|------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------------------|
| Type of light              |      | Continuous light                                           | Flashing light                                             | Strobe light                                               | Continuous light        | Strobe light            | Multi-strobe light      | Continuous light                    |
| Light elements             |      | LED                                                        | LED                                                        | LED                                                        | High-performance LED    | High-performance LED    | High-performance LED    | Incandescent bulb (max. 7W)         |
| Mounting                   |      | —                                                          | —                                                          | —                                                          | —                       | —                       | —                       | Ba15d                               |
| Flashing/strobe frequency  |      | —                                                          | 2 Hz                                                       | 1.4 Hz                                                     | —                       | 1.4 Hz                  | 1–2.6 Hz                | —                                   |
| Transmission angle         |      | 360°                                                       | 360°                                                       | 360°                                                       | 360°                    | 360°                    | 360°                    | 360°                                |
| Leakage current            | A    | < 0.003                                                    | < 0.003                                                    | < 0.003                                                    | < 0.003                 | < 0.003                 | < 0.003                 | < 0.003                             |
| Current-/power consumption |      |                                                            |                                                            |                                                            |                         |                         |                         |                                     |
| 24 Vac/Vdc                 | A    | 0.049–0.054                                                | 0.058                                                      | 0.130–0.135                                                | 0.170–0.200             | 0.260–0.265             | 0.260–0.265             | —                                   |
| 110/120 Vac                | A    | 0.028–0.031                                                | 0.028–0.030                                                | 0.010                                                      | —                       | —                       | —                       | —                                   |
| 230/240 Vac                | A    | 0.027–0.028                                                | 0.030–0.031                                                | 0.010                                                      | —                       | —                       | —                       | —                                   |
| Power consumption          |      | —                                                          | —                                                          | —                                                          | —                       | —                       | —                       | Max. 7W with the specified voltages |
| Voltage levels             |      | 24 Vac/Vdc ± 10%<br>110/120 Vac ± 10%<br>230/240 Vac ± 10% | 24 Vac/Vdc ± 10%<br>110/120 Vac ± 10%<br>230/240 Vac ± 10% | 24 Vac/Vdc ± 10%<br>110/120 Vac ± 10%<br>230/240 Vac ± 10% | 18–30 Vdc/<br>18–26 Vac | 18–30 Vdc/<br>18–26 Vac | 18–30 Vdc/<br>18–26 Vac | Up to 250 Vac/Vdc                   |
| Lifespan                   | h    | 100,000                                                    | 100,000                                                    | 100,000                                                    | 50,000                  | 50,000                  | 50,000                  | 3000                                |
| Weight                     | g    | 80                                                         | 80                                                         | 80                                                         | 80                      | 80                      | 80                      | 80                                  |

## SL7 Acoustic Module Specifications

|                                 | Unit | SL7-AP...                                                              | SL7-AP...-E                                                            | SL7-AP...-M                                                            |
|---------------------------------|------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|
| Type of tone                    |      | Continuous or pulsed tone                                              | Continuous or pulsed tone                                              | Continuous or pulsed tone<br>Eight types of sound                      |
| Types of sound                  |      | Two versions,<br>table of sound types                                  | Two versions,<br>table of sound types                                  | Eight versions,<br>table of sound types                                |
| Sound setting                   |      | Internal; single-pole DIP                                              | Can be externally actuated                                             | Internal; three-pole DIP                                               |
| Sound pressure                  | dB   | Max.: 100<br>Min.: 88                                                  | Max.: 100<br>Min.: 88                                                  | Max.: 100<br>Min.: 88                                                  |
| Sound pressure level adjustment |      | Built-in, potentiometer                                                | Built-in, potentiometer                                                | Built-in, potentiometer                                                |
| Transmission angle              |      | 360°                                                                   | 360°                                                                   | 360°                                                                   |
| Current-/power consumption      |      |                                                                        |                                                                        |                                                                        |
| 24 Vac/Vdc                      | A    | 0.092                                                                  | 0.092                                                                  | 0.115                                                                  |
| 110/120 Vac                     | A    | 0.041                                                                  | 0.041                                                                  | 0.045                                                                  |
| 230/240 Vac                     | A    | 0.043                                                                  | 0.043                                                                  | 0.043                                                                  |
| Voltage levels                  |      | 24 Vac/Vdc $\pm$ 10%<br>110/120 Vac $\pm$ 10%<br>230/240 Vac $\pm$ 10% | 24 Vac/Vdc $\pm$ 10%<br>110/120 Vac $\pm$ 10%<br>230/240 Vac $\pm$ 10% | 24 Vac/Vdc $\pm$ 10%<br>110/120 Vac $\pm$ 10%<br>230/240 Vac $\pm$ 10% |
| Weight                          | g    | 102                                                                    | 102                                                                    | 102                                                                    |

## SL7 Table of Sound Types

|             | Sound Type      | Frequency (Hz) | Diagram | Repeat Rate           | DIP Switch Position | Maximum Volume at 1M (dB) |
|-------------|-----------------|----------------|---------|-----------------------|---------------------|---------------------------|
| SL7-AP...   | Continuous tone | Approx. 2800   |         | —                     | —                   | 100                       |
|             | Pulsed tone     | Approx. 2800   |         | Approx. 2 Hz          | —                   | 100                       |
| SL7-AP...-E | Continuous tone | Approx. 2800   |         | —                     | —                   | 100                       |
|             | Pulsed tone     | Approx. 2800   |         | Approx. 2 Hz          | —                   | 100                       |
| SL7-AP...-M | Continuous tone | 2700           |         | —                     | ON                  | Tone 01 100               |
|             | Continuous tone | 1350           |         | —                     | ON                  | Tone 02 100               |
|             | Pulsed tone     | 2700           |         | 250 ms on, 250 ms off | ON                  | Tone 03 100               |
|             | Pulsed tone     | 1350           |         | 250 ms on, 250 ms off | ON                  | Tone 04 100               |
|             | Falling         | 1200–500       |         | 1 Hz                  | ON                  | Tone 05 98                |
|             | Rising          | 500–1200       |         | Rising 3s, 0.5s off   | ON                  | Tone 06 98                |
|             | Alternating     | 800–1000       |         | 2 Hz                  | ON                  | Tone 07 94                |
|             | rising/falling  | 500–1500       |         | 10 Hz                 | ON                  | Tone 08 94                |

**SL4 Series****SL4 General Specifications**

| Description                                         | Specification                                                                  |
|-----------------------------------------------------|--------------------------------------------------------------------------------|
| Standards                                           | IEC/EN 60947-5-1                                                               |
| Lens color                                          | Blue, green, red, clear, yellow, orange                                        |
| Number of signal elements                           | Max. 5 with standard base<br>Max. 10 with base for mounting on both sides      |
| Mounting position                                   | As required                                                                    |
| <b>Mechanical Ratings</b>                           |                                                                                |
| Mechanical shock resistance                         | >15g according to IEC 60068-2-27<br>Shock duration 11 ms<br>Sinusoidal         |
| <b>Climate Conditions</b>                           |                                                                                |
| Climatic proofing                                   | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60069-2-30 |
| Ambient temperature                                 | −22°F to +140°F (−30°C to +60°C)                                               |
| <b>Environmental Ratings</b>                        |                                                                                |
| IEC degree of protection                            | UL Type 4/4X/13, IP66<br>IEC/EN 60529                                          |
| Protection type UL                                  | Type 4/4X/13                                                                   |
| <b>Materials</b>                                    |                                                                                |
| Enclosure                                           | Polycarbonate (PC), black                                                      |
| Cap                                                 | Polycarbonate (PC)                                                             |
| <b>Terminal Capacity</b>                            |                                                                                |
| Solid or flexible conductor                         | 0.2–1.5 mm <sup>2</sup>                                                        |
| Solid or flexible conductor, with ferrule           | 0.25–1.5 mm <sup>2</sup>                                                       |
| Flexible with ferrule with plastic collar           | 0.25–0.75 mm <sup>2</sup><br>AWG 24–AWG 16                                     |
| <b>Contacts</b>                                     |                                                                                |
| Rated impulse withstand voltage (U <sub>imp</sub> ) | 4000 Vac                                                                       |
| Rated insulation voltage (U <sub>i</sub> )          | 250V                                                                           |
| Overvoltage category/pollution degree               | III/3                                                                          |

## SL4 Light Module Specifications

|                           | Unit | SL4-L...-...                                               | SL4-BL...-...                                              | SL4-FL...-...                                              | SL4-FL24...-M      | SL4-L...                               |
|---------------------------|------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|--------------------|----------------------------------------|
| Type of light             |      | Continuous light                                           | Flashing light                                             | Strobe light                                               | Multi-strobe light | Continuous light                       |
| Light elements            |      | LED                                                        | LED                                                        | LED                                                        | LED                | Incandescent bulb (max. 4W)            |
| Mounting                  |      | —                                                          | —                                                          | —                                                          | —                  | Ba15d                                  |
| Flashing/strobe frequency |      | —                                                          | 2 Hz                                                       | 1.4 Hz                                                     | 1–2.6 Hz           | —                                      |
| Transmission angle        |      | 360°                                                       | 360°                                                       | 360°                                                       | 360°               | 360°                                   |
| Leakage current           | A    | < 0.003                                                    | < 0.003                                                    | < 0.003                                                    | < 0.003            | < 0.003                                |
| Current/power consumption |      |                                                            |                                                            |                                                            |                    |                                        |
| 24 Vac/Vdc                | A    | 0.022–0.033                                                | 0.028–0.036                                                | 0.035–0.065                                                | 0.048–0.068        | —                                      |
| 110/120 Vac               | A    | 0.030                                                      | 0.030                                                      | 0.10                                                       | —                  | —                                      |
| 230/240 Vac               | A    | 0.030                                                      | 0.030                                                      | 0.10                                                       | —                  | —                                      |
| Power consumption         |      | —                                                          | —                                                          | —                                                          | —                  | Maximum 4W with the specified voltages |
| Voltage levels            |      | 24 Vac/Vdc ± 10%<br>110/120 Vac ± 10%<br>230/240 Vac ± 10% | 24 Vac/Vdc ± 10%<br>110/120 Vac ± 10%<br>230/240 Vac ± 10% | 24 Vac/Vdc ± 10%<br>110/120 Vac ± 10%<br>230/240 Vac ± 10% | 24 Vac/Vdc ± 10%   | Up to 250 Vac/Vdc                      |
| Lifespan                  | h    | 100,000                                                    | 100,000                                                    | 100,000                                                    | 100,000            | 100,000                                |
| Weight                    | g    | 45                                                         | 45                                                         | 45                                                         | 45                 | 45                                     |

## SL4 Acoustic Module Specifications

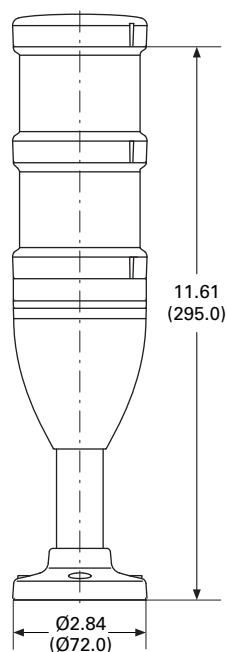
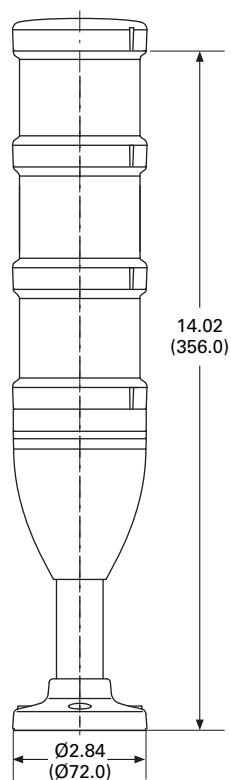
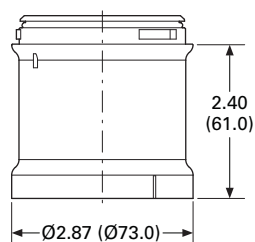
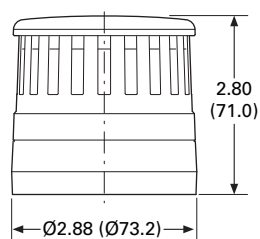
|                                               | Unit | SL4-AP...                                                  |
|-----------------------------------------------|------|------------------------------------------------------------|
| Type of tone                                  |      | Continuous or pulsed tone                                  |
| Types of sound                                |      | Two versions, table of sound types                         |
| Sound setting                                 |      | Internal; single-pole DIP                                  |
| Sound pressure                                | dB   | 80                                                         |
| Sound pressure level adjustment               |      | —                                                          |
| Sound pressure can be lowered to a minimum of |      | —                                                          |
| Transmission angle                            |      | 360°                                                       |
| Current/power consumption                     |      |                                                            |
| 24 Vac/Vdc                                    | A    | 0.039                                                      |
| 110/120 Vac                                   | A    | 0.021                                                      |
| 230/240 Vac                                   | A    | 0.021                                                      |
| Voltage levels                                |      | 24 Vac/Vdc ± 10%<br>110/120 Vac ± 10%<br>230/240 Vac ± 10% |
| Weight                                        | g    | 43                                                         |

## SL4 Table of Sound Types

|           | Sound Type      | Frequency (Hz) | Diagram | Repeat Rate  | Maximum Volume at 1M (dB) |
|-----------|-----------------|----------------|---------|--------------|---------------------------|
| SL4-AP... | Continuous tone | Approx. 4000   | —       | —            | 80                        |
|           | Pulsed tone     | Approx. 4000   | — — —   | Approx. 2 Hz | 80                        |

**Dimensions**

Approximate Dimensions in Inches (mm)

**SL7 Series****Complete Devices****SL7-100-L-RG-24LED****SL7-100-L-RYG-24LED****Light Modules****SL7-(B)(F)L...****Acoustic Modules****SL7-AP...**

# 2.1

## Stacklights

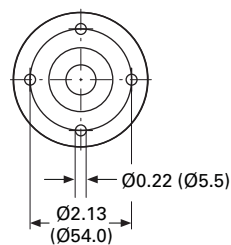
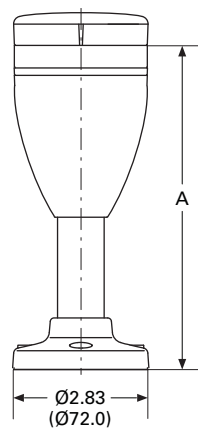
### SL Series

Approximate Dimensions in Inches (mm)

2

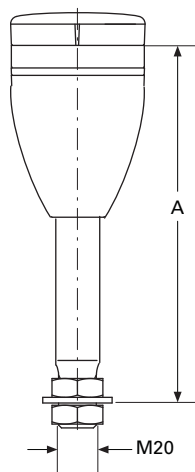
#### Basic Modules

##### SL7-CB-...



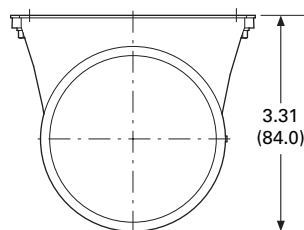
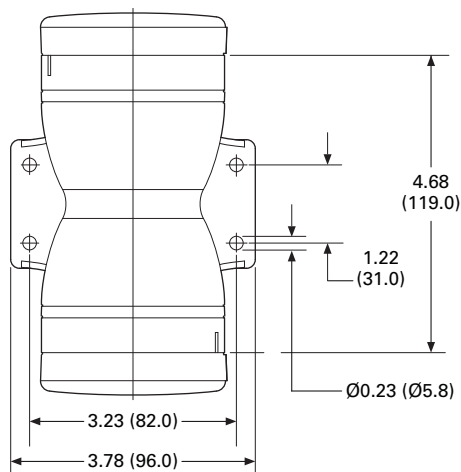
| Catalog Number | A             |
|----------------|---------------|
| SL7-CB-100     | 6.73 (171.0)  |
| SL7-CB-250     | 12.64 (321.0) |
| SL7-CB-400     | 18.54 (471.0) |

##### SL7-CB-T...

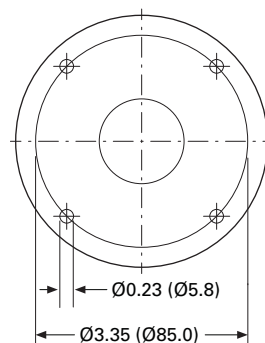
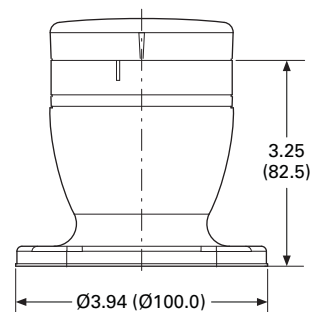


| Catalog Number | A             |
|----------------|---------------|
| SL7-CB-T-100   | 7.48 (190.0)  |
| SL7-CB-T-250   | 13.38 (340.0) |
| SL7-CB-T-400   | 19.29 (490.0) |

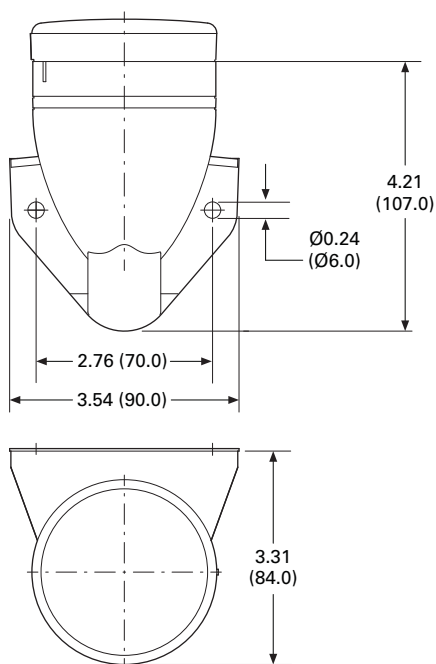
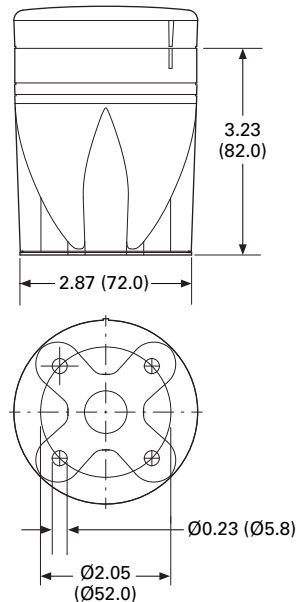
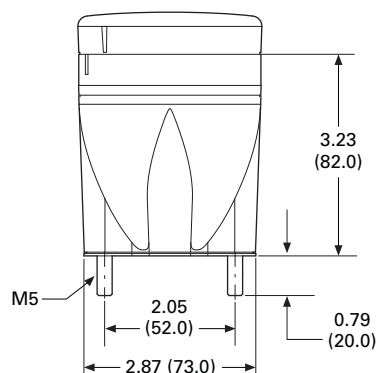
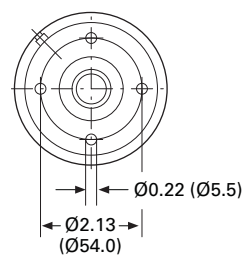
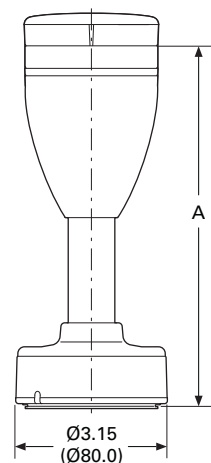
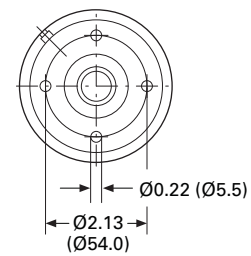
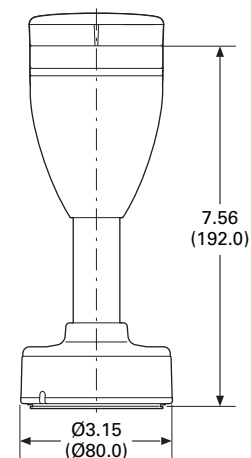
##### SL7-CB-D



##### SL7-CB-EMH



Approximate Dimensions in Inches (mm)

**SL7-CB-FW****SL7-CB-IMH****SL7-CB-IMS****SL7-FMS-...****SL7-SWD<sup>①</sup>**

| Catalog Number | A             |
|----------------|---------------|
| SL7-FMS-100    | 7.55 (192.0)  |
| SL7-FMS-250    | 13.46 (342.0) |
| SL7-FMS-400    | 19.37 (192.0) |

**Note**

① For connecting to SmartWire-DT.

# 2.1

## Stacklights

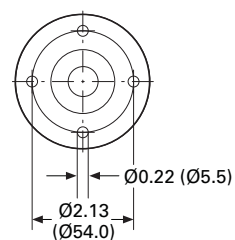
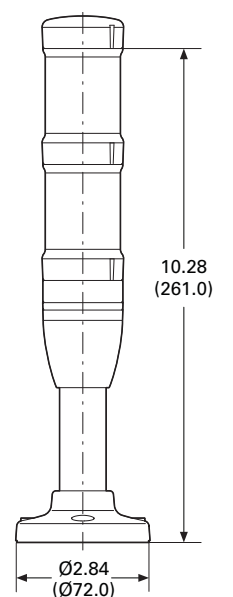
### SL Series

Approximate Dimensions in Inches (mm)

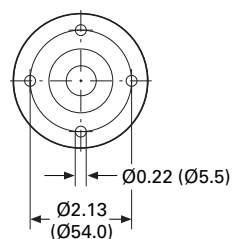
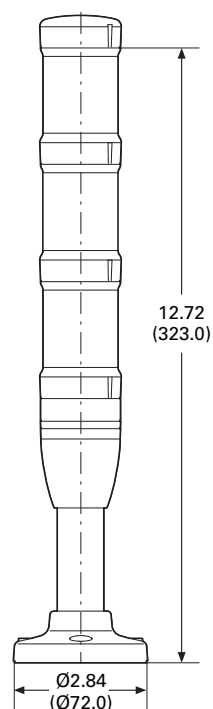
#### SL4 Series

##### Complete Devices

###### SL4-100-L-RG-24LED

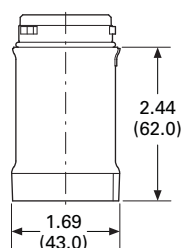


###### SL4-100-L-RYG-24LED



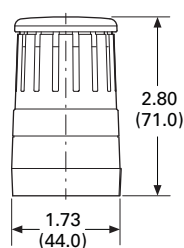
##### Light Modules

###### SL4-(B)(F)L...



##### Acoustic Modules

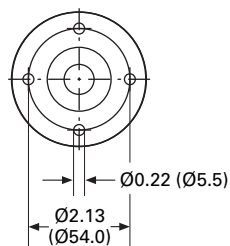
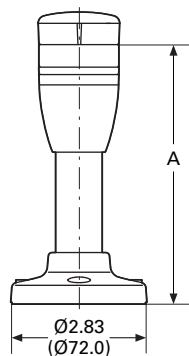
###### SL4-AP...



Approximate Dimensions in Inches (mm)

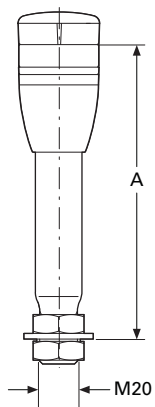
### Basic Modules

#### SL4-PIB-...



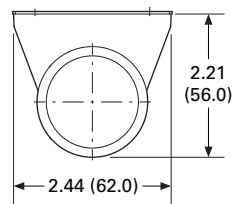
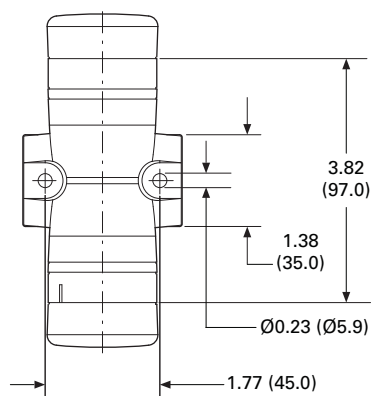
| Catalog Number | A             |
|----------------|---------------|
| SL4-PIB-100    | 3.53 (136.0)  |
| SL4-PIB-250    | 11.26 (286.0) |
| SL4-PIB-400    | 17.16 (436.0) |

#### SL4-PIB-T...

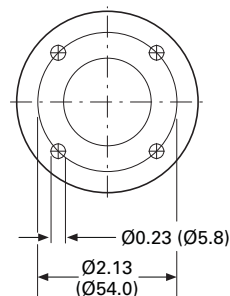
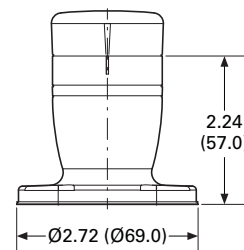


| Catalog Number | A             |
|----------------|---------------|
| SL4-PIB-T-100  | 5.90 (150.0)  |
| SL4-PIB-T-250  | 11.81 (300.0) |
| SL4-PIB-T-400  | 17.72 (450.0) |

#### SL4-PIB-D



#### SL4-PIB-EMH



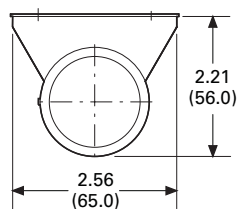
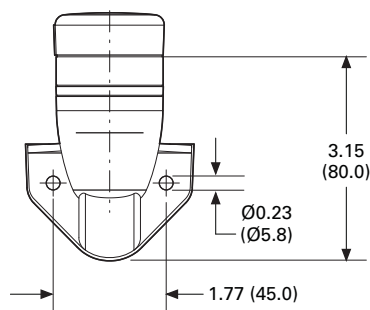
# 2.1

## Stacklights

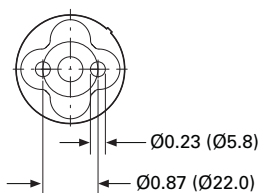
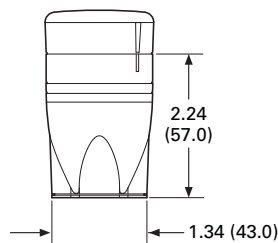
### SL Series

Approximate Dimensions in Inches (mm)

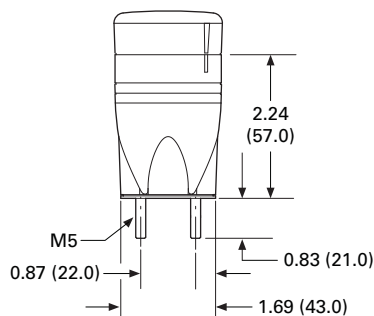
#### SL4-PIB-FW



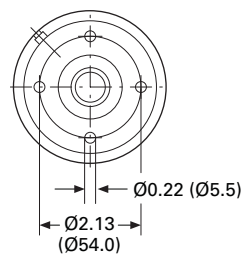
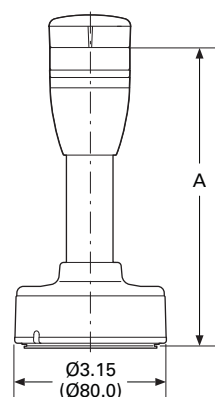
#### SL4-PIB-IMH



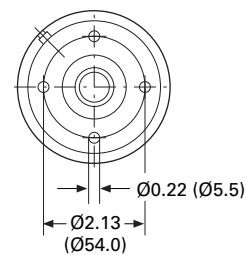
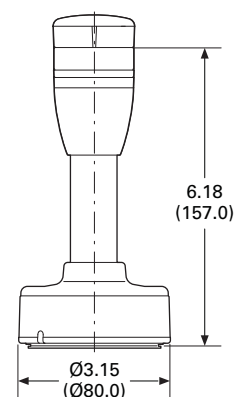
#### SL4-PIB-IMS



#### SL4-FMS-...



#### SL4-SWD<sup>①</sup>



| Catalog Number | A             |
|----------------|---------------|
| SL4-FMS-100    | 6.18 (157.0)  |
| SL4-FMS-250    | 12.09 (307.0) |
| SL4-FMS-400    | 17.99 (457.0) |

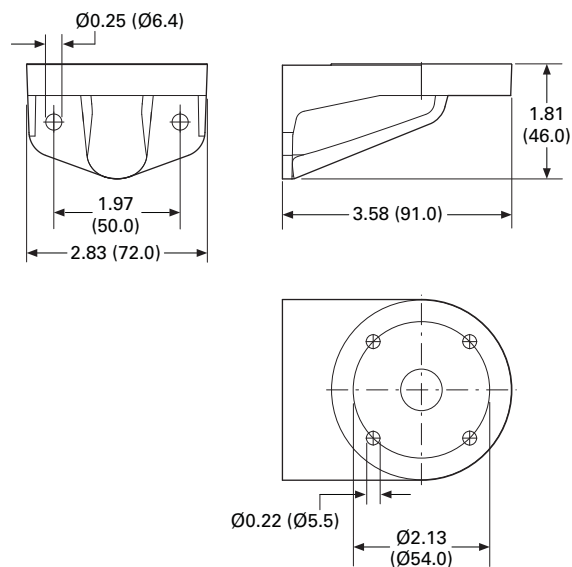
#### Note

<sup>①</sup> For connecting to SmartWire-DT.

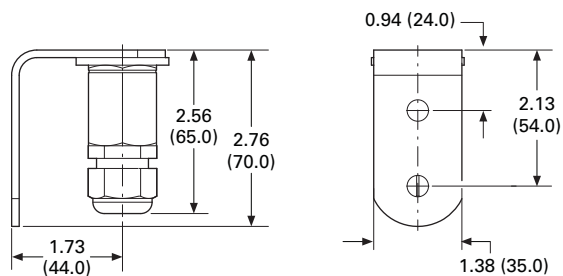
Approximate Dimensions in Inches (mm)

### Mounting Brackets

#### SL7/4-FW

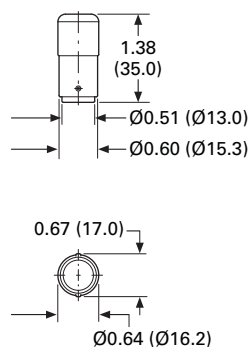


#### SL7/4-FW-T



### Incandescent Bulbs

#### SL7-L12 and SL4-L12



### Tool for Replacing Incandescent Bulb

#### SL7/4-BET

