

# PATLITE® Signal Towers - LKEH Series

## Features

- Large signal horn and light tower combination
- Ultra-bright LEDs with 100mm lens
- Alarm volume up to 105dB
- Meets IP53 standards
- Designed to operate in temperatures from
- -10 to +50°C [+14 to +122°F]
- Body length from 265 to 445mm [10.4 to 17.5 inches]
- Available in both PNP and NPN polarity
- Defaults to 1-4 tiers of lights, depending on model
- 32 standard alarms
- Optional SD card for field configuration (sold separately)



| Signal Towers - LKEH Series        |          |                     |   |          |                  |                         |            |                     |          |
|------------------------------------|----------|---------------------|---|----------|------------------|-------------------------|------------|---------------------|----------|
| Part Number                        | Price    | Drawing Link        | Description   | Polarity | Number of Lights | Light Color             | Body Color | Body Length mm [in] | Diameter |
| <a href="#">LKEH-102FEPUL-R</a>    | \$463.00 | <a href="#">PDF</a> | Signal tower with continuous or flashing lights, 32 alarms. | PNP      | 1                | Red                     | Light gray | 265.2 [10.4]        | 100mm    |
| <a href="#">LKEH-102FEUL-R</a>     | \$445.00 | <a href="#">PDF</a> |   | NPN      |                  |                         |            |                     |          |
| <a href="#">LKEH-202FEPUL-RG</a>   | \$526.00 | <a href="#">PDF</a> |   | PNP      | 2                | Red, green              |            | 325.3 [12.8]        |          |
| <a href="#">LKEH-202FEUL-RG</a>    | \$516.00 | <a href="#">PDF</a> |   | NPN      |                  |                         |            |                     |          |
| <a href="#">LKEH-302FEPUL-RYG</a>  | \$612.00 | <a href="#">PDF</a> |   | PNP      | 3                | Red, amber, green       |            | 385.4 [15.2]        |          |
| <a href="#">LKEH-302FEUL-RYG</a>   | \$612.00 | <a href="#">PDF</a> |   | NPN      |                  |                         |            |                     |          |
| <a href="#">LKEH-402FEPUL-RYGB</a> | \$894.00 | <a href="#">PDF</a> |   | PNP      | 4                | Red, amber, green, blue |            | 445.5 [17.5]        |          |
| <a href="#">LKEH-402FEUL-RYGB</a>  | \$924.00 | <a href="#">PDF</a> |   | NPN      |                  |                         |            |                     |          |

| LKEH Series Accessories       |          |                     |   |
|-------------------------------|----------|---------------------|---|
| Part Number                   | Price    | Drawing Link        | Description   |
| <a href="#">B72100151-1F1</a> | \$144.00 | N/A                 | 100mm red LED module with colored lens                      |
| <a href="#">B72100151-2F1</a> | \$144.00 | N/A                 | 100mm amber LED module with colored lens                    |
| <a href="#">B72100151-3F1</a> | \$144.00 | N/A                 | 100mm green LED module with colored lens                    |
| <a href="#">B72100151-4F1</a> | \$241.00 | N/A                 | 100mm blue LED module with colored lens                     |
| <a href="#">B72100151-7F1</a> | \$241.00 | N/A                 | 100mm white LED module with clear lens                      |
| <a href="#">B62910033-1F2</a> | \$8.75   | N/A                 | 1-tier center screw for use with LKEH series signal towers  |
| <a href="#">B62910033-2F2</a> | \$8.75   | N/A                 | 2-tier center screw for use with LKEH series signal towers  |
| <a href="#">B62910033-3F2</a> | \$11.00  | N/A                 | 3-tier center screw for use with LKEH series signal towers  |
| <a href="#">B62910033-4F2</a> | \$11.00  | N/A                 | 4-tier center screw for use with LKEH series signal towers  |
| <a href="#">B32310054-F1</a>  | \$17.50  | N/A                 | Replacement head cover for LKEH series signal towers        |
| <a href="#">C21100087-F1</a>  | \$33.00  | N/A                 | Replacement option slot cover for LKEH series signal towers |
| <a href="#">SZ-008</a>        | \$30.50  | <a href="#">PDF</a> | Wall mount bracket for LKEH series signal towers            |
| <a href="#">SDV-2GP</a>       | \$17.50  | N/A                 | 2GB micro SD card with SD adapter                           |



[B72100151-1F1](#)



[B32310054-F1](#)



[SZ-008](#)



[C21100087-F1](#)

# PATLITE® Signal Towers - LKEH Series

## Specifications

| Signal Towers - LKEH Series Technical Specifications |  |                |                 |                  |
|--|--|----------------|-----------------|------------------|
| Model  | LKEH-102FEx-R  | LKEH-202FEx-RG | LKEH-302FEx-RYG | LKEH-402FEx-RYGB |
| Rated Voltage  | 24VDC  |                |                 |                  |
| Operating Voltage Range                              | 24VDC ± 10%  |                |                 |                  |
| Rated Power Consumption                              | 10.6 W   | 12.4 W         | 14.2 W          | 16.0 W           |
| Operating Ambient Temperature                        | -10°C to +50°C [+14°F to +122°F]   |                |                 |                  |
| Operating Ambient Humidity                           | Less than 85% (no condensation)  |                |                 |                  |
| Mounting Location                                    | Indoors and outdoors   |                |                 |                  |
| Mounting Direction                                   | Upright only   |                |                 |                  |
| Protection Rating                                    | IP53   |                |                 |                  |
| Insulation Resistance                                | More than 1MΩ at 500VDC between terminals and chassis  |                |                 |                  |
| Withstanding Voltage                                 | 500VAC applied for 1 minute between terminals and chassis  |                |                 |                  |
| Vibration Resistance                                 | 19.6 m/s <sup>2</sup> (30Hz, back and forth: 2h, right to left: 2h, up and down: 4h)   |                |                 |                  |
| Weight (kg [lbs])                                    | 1.4 [3.1]  | 1.6 [3.5]      | 1.8 [4.0]       | 2.0 [4.4]        |
| Sound Pressure Level                                 | Max 105dB, volume adjustable   |                |                 |                  |
| Sound Reduction Level                                | 20dB ± 2dB   |                |                 |                  |
| Light Source   | LED  |                |                 |                  |
| Brightness   | Red (R)  | 2100 mcd       |                 |                  |
|  | Amber (Y)  | 2400 mcd       |                 |                  |
|  | Green (G)  | 5200 mcd       |                 |                  |
|  | Blue (B)   | 700 mcd        |                 |                  |
|  | White (C)  | 5500 mcd       |                 |                  |
| Input Interface                                      | 16 signal wires (5 LED, 8 sound, sound reduction, blinking common*, common), selection switch, SD card slot  |                |                 |                  |
| Number of Channels                                   | Bit Input: 8<br>Binary Input: 32   |                |                 |                  |
| Channel Priority (bit input only)                    | CH8 > CH7 > CH6 > CH5 > CH4 > CH3 > CH2 > CH1  |                |                 |                  |
| Number of Sounds                                     | 32   |                |                 |                  |
| Memory Card  | SD card (SDV-2GP recommended, sold separately), FAT16 format   |                |                 |                  |
| Starting Time  | At start of power supply: 500ms or less<br>At start of signal wire: 300ms or less  |                |                 |                  |
| Agency Approvals **                                  | EMC Directive (EN 55011, EN 61000-6-2)<br>RoHS Directive (EN 50581)<br>UL 508, CSA-C22.2 No. 14<br>Conforms to CE requirements<br>UL Listed (File E215660) |                |                 |                  |

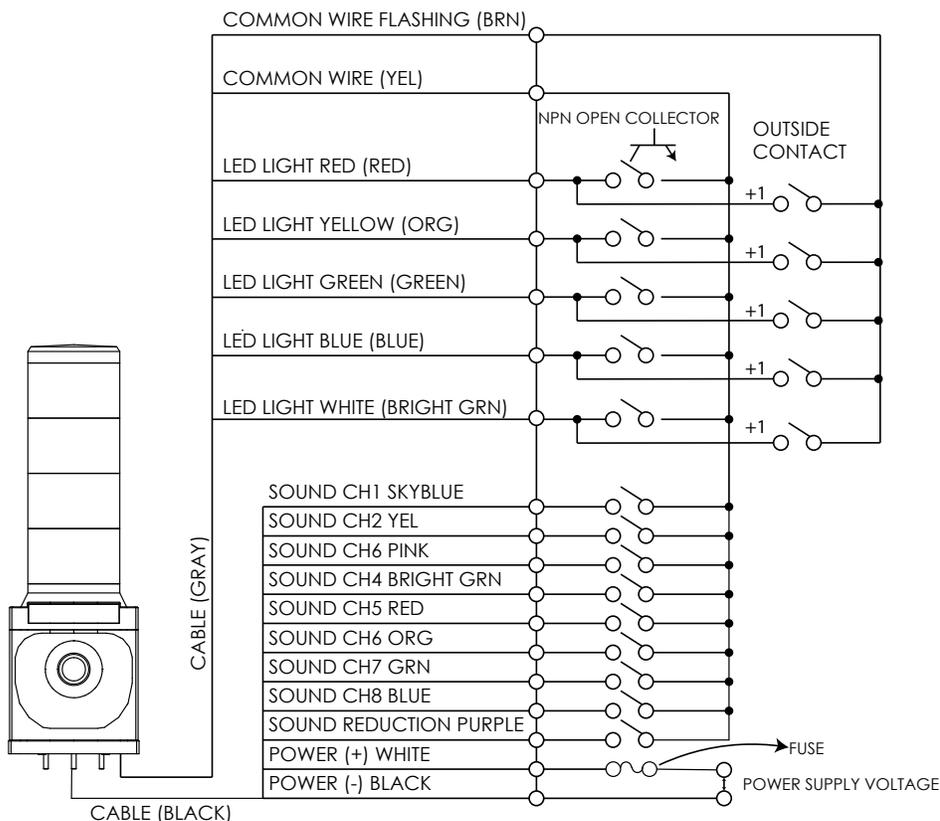
\* Blinking common is for NPN models only.

\*\* To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

# PATLITE® Signal Towers - LKEH Series

## Wiring

### NPN Wiring



### PNP Wiring

