



## WHAT DO THEY DO?

Stacklights combine lights and sound to convey machine and process status quickly and consistently on the plant floor. Choose visual, audible or combined devices to match visibility, audibility and safety needs.

### Core Functions

- **Status Indication:** Provide immediate visual cues—colors and light patterns show run, stop, fault or maintenance states for fast recognition.
- **Process Alarms:** Deliver audible tones and strobe options to draw attention to critical events that require operator action.
- **Tiered Severity:** Combine tones and multi-color lights so different alarm levels communicate urgency without confusion.
- **Remote Visibility:** Mounting towers and columns where operators and supervisors can see them across lines and work cells provides machine status indication from a distance.
- **Workflow Guidance:** Different colors or flashing patterns can indicate which step is currently active, helping reduce errors and improve task efficiency.

### Topics

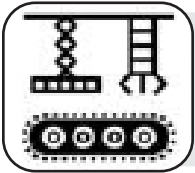
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- **Safety and Compliance Signaling:** Indicate safety states such as machine guarding status, emergency stop activation, or lockout/tagout conditions to comply with OSHA and other safety standards.
- **Accessibility Enhancements:** Audible alerts assist visually impaired personnel or those working in positions where visual indicators are obstructed, ensuring everyone receives timely notifications.

Select devices that match your environment, reach, and compliance needs; mix visual and audible elements only where they improve response.

# APPLICATIONS

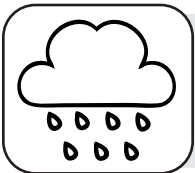
Stacklights provide clear, layered indication of machine and process states on factory floors, helping operators and maintenance staff prioritize actions and reduce downtime. This section highlights common industrial uses.



**Process Monitoring in Industrial Automation:** Ideal for real-time monitoring of machine or process status, where multiple conditions need to be visually and audibly communicated.



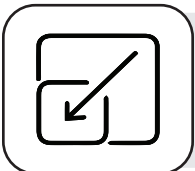
**Material Availability & Filling Level Indication:** Perfect for inventory management, conveyor systems, or liquid level monitoring, where operators need to see at a glance how full or empty a system is.



**Environmental Compliance Monitoring:** Used in harsh environments to visually signal equipment status or hygiene-critical process stages, ensuring operators maintain compliance with sanitation and safety protocols.



**Manual Operator Alerts:** Ideal for assembly lines or manual workstations where operators need to signal status changes or request assistance quickly.



**Space-Constrained Workstation Signaling:** Perfect for tight production areas, providing clear visual status updates without occupying valuable workspace, helping operators stay informed without compromising layout efficiency.

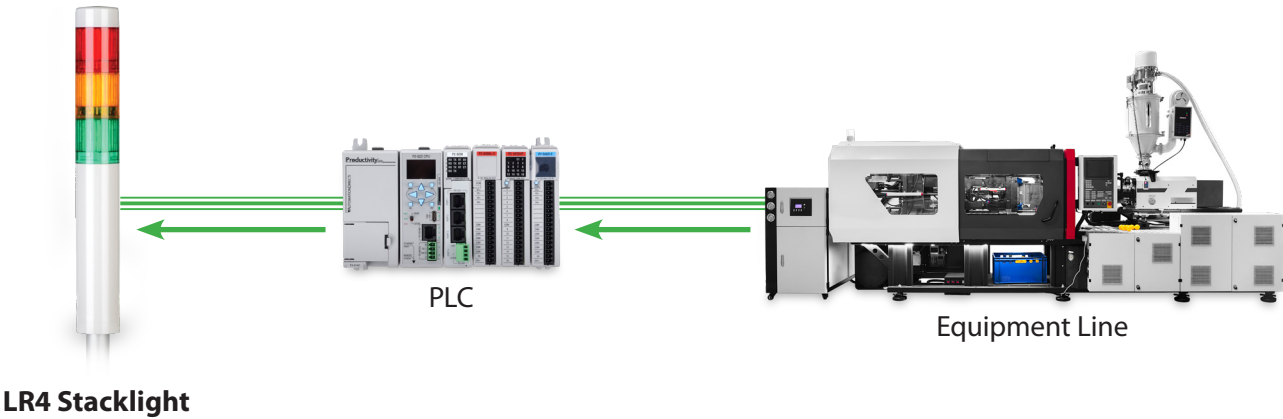


**Facility-Wide Alerts:** Designed for hazardous areas, emergency evacuation, or critical fault alerts in large industrial facilities where both visual and audible alerts are essential.

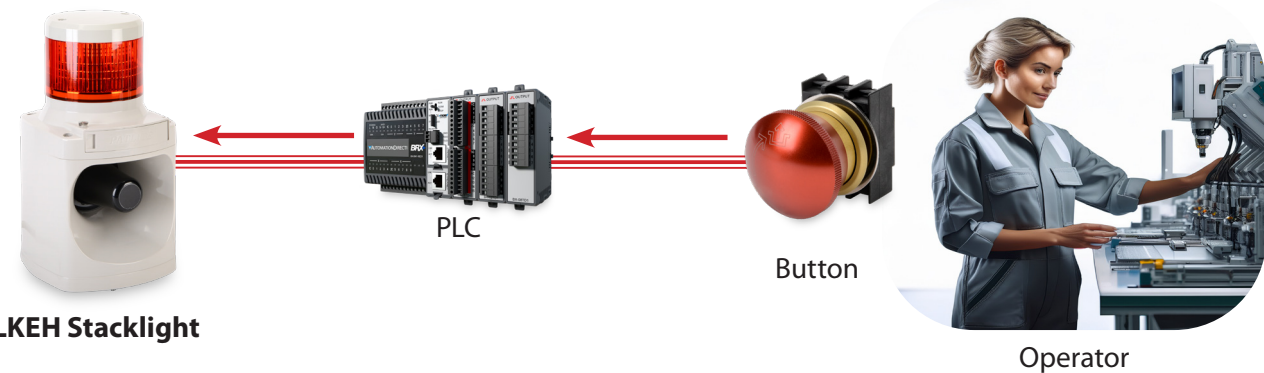
Select devices based on visibility, audibility, environmental rating, and modularity so signals remain effective under noise, distance, and enclosure constraints. Consider standards and consistent color coding to avoid operator confusion.

# APPLICATION EXAMPLES

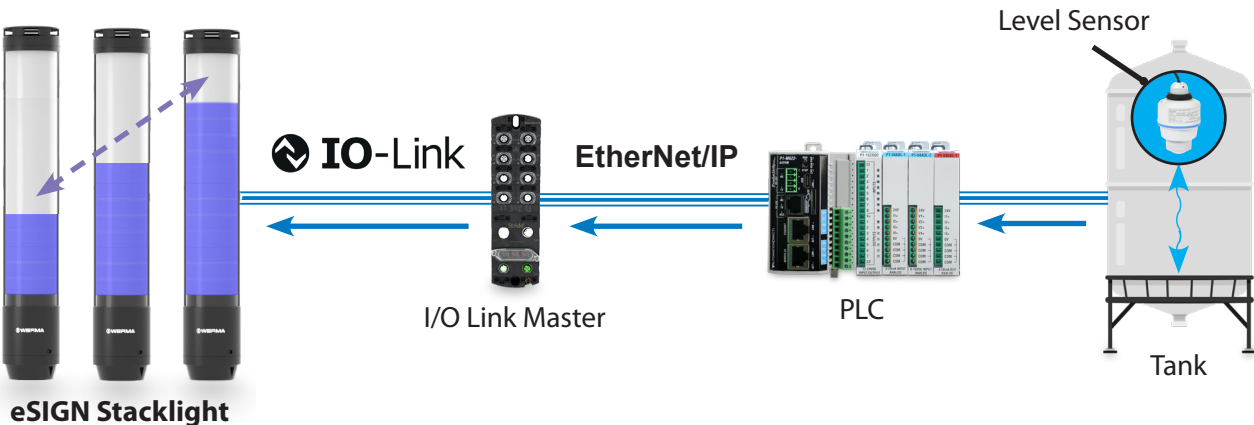
- **Machine status:** Use a three-tier stacklight to show run, warning, and fault states at a machine, improving operator response and reducing downtime.



- **Quality alert:** Trigger an audible-visual signal when an inspector tags a defective part so operators stop the line and log corrective actions immediately.



- **Tank level monitoring:** A stacklight configured in filling level mode provides a clear, progressive visual indication of a tank's fill status, helping operators monitor material levels at a glance and respond promptly to changes.





# COLOR CODING AND SIGNALING STANDARDS

Standardized colors and audible cues make machine status instantly recognizable to operators and maintenance staff. Use consistent color meanings, layered signals, and correct device types to ensure safe, fast responses across systems.



Apply your defined color and sound standards across stacklights, towers, and accessories so every part number and assembly follows the same meanings; document your scheme on floorplans and control drawings for operator training and maintenance consistency.

# HOW TO CHOOSE

This section helps you select the right stacklight for industrial use, balancing visibility, audibility, and installation constraints. Focus on application requirements, environment, and integration to ensure reliable alerts and minimal downtime.

1. Define purpose: Decide if you need visual, audible, or combined signaling based on operator tasks and response time expectations.
2. Prioritize visibility: Choose lens size and lamp type to ensure signals are visible at required distances and lighting conditions.
3. Evaluate audibility: Confirm decibel levels and tones are adequate for ambient noise without causing worker fatigue or confusion.
4. Consider modularity: Weigh potential need for easy reconfiguration or future expansion of signals to determine if fitting preconfigured, electronically modular, or physically modular stacklights is best for your application.
5. Check certifications: Verify IP rating, NEMA type, and safety approvals for washdown, dust, or explosive environments.
6. Match voltage: Ensure device voltage and wiring match your control panel or PLC outputs to avoid additional converters.
7. Assess mounting: Pick pole, wall, or panel mounts that fit space constraints and provide secure, vibration-resistant installation.
8. Choose colors: Use standard color coding for meanings and ensure compatibility with company or industry signaling conventions.



9. Select lens type: Pick clear, diffused, or prismatic lenses to optimize light spread and viewing angle for the workspace.
10. Review light source: Compare LEDs for longevity and low power versus incandescent if specific intensity or color rendering is needed.
11. Consider flash patterns: Check availability of steady, flashing, or rotating patterns to differentiate priority levels or alarm types effectively.
12. Plan wiring and control: Ensure you have appropriate contact relays, flasher modules, or PLC outputs to control sequences and intensities.
13. Factor maintenance: Prefer easily replaceable modules and common spare parts to minimize downtime and simplify repairs.
14. Budget total cost: Include upfront price, installation, wiring, and ongoing maintenance when comparing pre-assembled towers versus modular elements.

Use this checklist to narrow options quickly and validate selections against site conditions and control systems. Confirm final choice with a pilot install or drawing review before procurement.

SELECTION GUIDE

Product Series	Diameter	Mounting Options	Rating	Audible Signal	Max Volume at 1m	Modularity	Application Specialty	Starting At
Patlite MES, ME	25mm	Base	IP42 or IP65	None	N/A	Elements available*	Compact installations	Elements at \$40.00
						Preassembled		\$103.00
Patlite MPS, MP	30mm	Base	IP65	Optional buzzer	80 dB	Elements available*	Indoor use	Elements at \$49.00
						Preassembled		\$103.00
Patlite LR4	40mm	Base or Pole	IP54 or IP65; NEMA 4X/13	Optional buzzer	85 dB	Elements available	Indoor/ outdoor	Elements at \$25.00
						Preassembled		\$83.00
Patlite HSST	50mm	Pole	IP54	None	N/A	Fixed kit	Workstations	\$261.00
Werma KombiSIGN	50mm	Tube, Bracket, or Base	IP54	Optional buzzer	80 dB	Elements available	Industrial signaling	Elements at \$23.50
	70mm	Tube, Bracket, or Base	IP65	Optional buzzer or siren	100 dB	Elements available	Industrial signaling	Elements at \$24.00
				None	N/A	Preassembled		\$159.00
Patlite LS7	70mm	Base	IP54, IP65 or IP69k	Select models	85 dB	Preassembled	Washdown environments	\$200.00
Werma eSIGN	72mm	Base or Tube	IP66/ IP69K	Select models	105 dB	Electronically modular	Smart factories, IO-Link capable	\$407.00
Patlite LKEH	100mm	Base	IP53	Integrated horn	105 dB	Elements available*	Large-scale signaling	Elements at \$161.00
						Preassembled		\$497.00
Werma FlatSIGN	Flat panel	Wall mount	IP65	Selected models	80 dB	Fixed unit	Clean environments	\$155.00

\*Bases for this series are not sold separately and are only available with a preassembled unit

PRODUCT LINEUP

PATLITE®

WERMA®

STACKLIGHTS

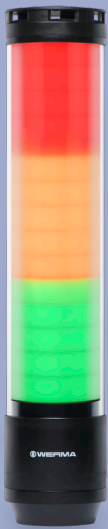
WERMA ADVANCED LED SIGNAL TOWERS

STARTING AT \$407.00

The WERMA eSIGN series towers are electronically modular, highly configurable, and suitable for both wall and tube mounting, making them ideal for smart factories and advanced automation environments.

- Available with 9 or 15 electronically configurable tiers
- 360° LED illumination enables dynamic signaling effects
- Impact-resistant lens ensures durability in industrial settings

CONFIGURATION OPTIONS



Filling Level Mode

Filling level mode accurately indicates job progress or material availability as a percentage, gradually illuminating the signal tower from bottom to top or top to bottom.



Autoscale Mode

In autoscale mode, the eSIGN segments are divided equally by the number of active status warnings. If only one status warning is active, the entire signal tower is illuminated in one color for maximum visibility.



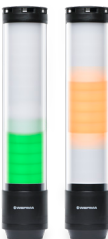
Individual Mode

All tiers, colors, light effects, and sounds are configured independently for each signal tower state in individual mode. Each signal tower state is selected based on the combination of active status inputs, allowing for a maximum of 64 possible states.



Signal Tower Mode

In signal tower mode, eSIGN segments are combined to create a classic signal tower. Individual tiers are assigned fixed positions that are turned ON when their corresponding status bit is active.



IO-Link Compatibility

- An external IO-Link Master is required for operation and configuration
- No hard-wired I/O
- Operating modes, lighting effects, colors, and sounds can be changed on the fly
- Requires extensive knowledge of IO-Link protocol and IO-Link Master and gateway devices



PLC  
Sends commands and status requests via EtherNet/IP

EtherNet/IP



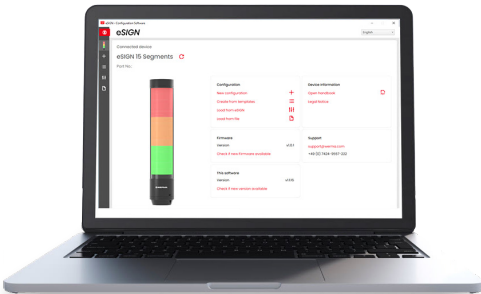
IO-Link Master  
Converts EtherNet/IP to IO-Link communication protocol

IO-Link



eSIGN Signal Tower  
Operating in Filling Mode

WERMA eSIGN Configuration Software



- Requires WERMA eSIGN configuration software (free download)
- USB-C programming interface
- Operation by hard-wired discrete inputs
- Standalone units do not require a PLC interface
- Software configured models do not support IO-Link





### PATLITE 25MM SUPER SLIM SIGNAL TOWERS STARTING AT \$103.00

The MES and ME series offer ultra-slim 25mm LED signal towers with a corrosion-resistant aluminum body, ideal for compact installations. These models feature high visibility prism-cut lenses and interchangeable modules for flexible configuration.

- Direct mount with single-hole installation simplifies setup
- LED modules are hot-swappable without rewiring
- Available in NPN (IP42) and PNP (IP65) polarity options



### PATLITE 70MM LED SIGNAL TOWERS STARTING AT \$200.00

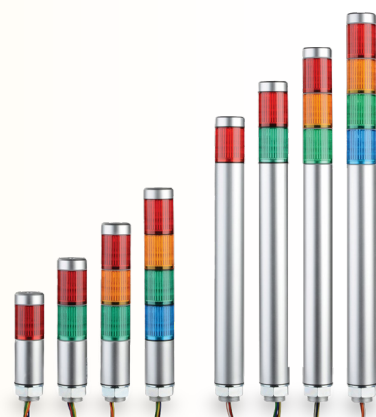
The LS7 series features preassembled 70mm LED towers with smooth, hygienic surfaces and high ingress protection. Designed for washdown environments, these towers are ideal for food and pharmaceutical industries.

- Available with either 3 or 5 LED tiers
- IP69k-rated models withstand high-pressure cleaning
- Buzzer-equipped versions cut through noisy environments
- M12 quick disconnect simplifies installation and maintenance
- Smooth, shock-resistant polycarbonate body

### PATLITE 30MM LED SIGNAL TOWERS STARTING AT \$103.00

The MPS and MP series 30mm signal towers combine durability and modularity with ABS resin bodies and prism-cut lenses. Designed for indoor use, they offer double insulation and IP65 protection for reliable performance.

- Clear lens options enhance visibility in various lighting conditions
- LED modules are hot-swappable without rewiring
- Optional buzzer module adds audible alerts
- M12 connector versions available for quick disconnect



### PATLITE 100MM LED SIGNAL TOWERS WITH HORN STARTING AT \$497.00

The LKEH series integrates ultra-bright LED lights with a powerful horn in a 100mm tower to suit large-scale industrial signaling needs.

- 32 standard tones up to 105 dB for maximum audibility
- SD card enables field configuration of alarm tones
- Available in PNP and NPN polarity
- IP53 rating suitable for indoor and sheltered outdoor use



### PATLITE 40MM LED SIGNAL TOWERS STARTING AT \$83.00

The LR4 series provides robust 40mm LED signal towers with modular design, multiple mounting options, and high brightness. Suitable for both indoor and outdoor environments, these towers support visual and audible signaling.

- Alarm modules offer up to 85 dB sound output
- Flashing and continuous light modes available
- IP54/IP65/NEMA 4X/13 ratings ensure environmental protection
- 120 VAC and 24 VDC voltage models support flexible power configurations



### PATLITE MANUAL SIGNAL TOWER KIT PRICED AT \$261.00

The HSST unit offers a compact, manually controlled signal tower kit with three LED tiers (red, amber, green). Designed for indoor use, it includes a switch box and power adapter, making it ideal for simple status indication in workstations or small machinery.

- Includes a 3-button switch box for manual control of each light tier
- Clear lens design enhances visibility while maintaining a clean aesthetic
- Operates on standard 100–240 VAC
- Compact footprint: 219mm length and 50mm diameter
- IP54-rated tower suitable for light industrial environments



## WERMA LED MODULAR STACKLIGHTS

**PRE-ASSEMBLED STARTING AT \$159.00**

**ELEMENTS STARTING AT \$23.50**

The KombiSIGN 50 and 71 series from WERMA provide highly modular stacklight systems with tool-free assembly. Offering a wide range of optical and audible elements, these stacklights are customizable for diverse industrial signaling applications.

- Build your own 4 tier (50mm) or 5 tier (70mm) stacklight
- Convenient pre-assembled 71 series (70mm) units available with up to 3 tiers
- Bayonet mechanism allows fast, secure assembly and reconfiguration
- Optical elements include LED, incandescent, and Xenon options
- Audible modules offer buzzers and multi-tone sirens with up to 100 dB output
- Mounting options include tubes, brackets, bases, and foldaway designs

## WERMA LED SIGNAL COLUMNS

**STARTING AT \$155.00**

FlatSIGN signal lights are wall mounted units featuring a sleek, low-profile design as a contemporary alternative to traditional stacklights. These lights are suitable for visual/audible status indication in offices, labs, and production areas.

- Tri-color red/green/yellow LED signal light
- 160° viewing angle
- Audible alert with 8 selectable tones or continuous tone
- DIP switch configuration enables quick mode changes without software
- Designed for wall mounting in clean, modern workspaces

