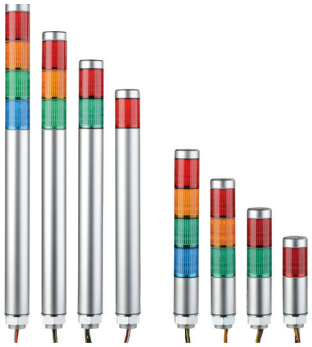
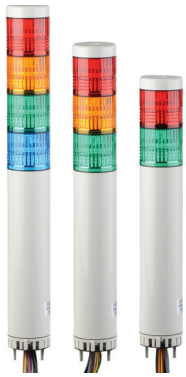
PATLITE® Slim Design LED Signal Towers

MES-A and ME-A 25mm Super Slim Signal Towers
These rust-free aluminum body signal towers are designed to be direct mounted. LED module lenses are clear and change color when activated. The super slim design is ideal for tight spaces.



MPS and MP 30mm Signal Towers
These LED towers offer superior impact and heat resistance and have an ABS resin main body. They are designed for direct mounting and have a double insulation for enhanced durability and safety.



LR4 40mm Signal Towers
The LR4 Series feature low maintenance and energy efficiency using LED technology.

LS7 70mm Signal Towers
The LS7 Series feature a smooth body surface that reduces adhesion of water and dust. There are no exposed screws, shafts or other metals making these signal towers adaptable in many environments. This model is suitable for high pressure and high temperature wash down environments. An available model with a buzzer has a sound frequency that cuts through loud environments.

Accessories

PATLITE® 25mm LED Signal Towers

Features

- Slim aluminum body is ideal for small devices
- Prism-cut lens design for enhanced visibility from any direction
- Impact and heat resistant polycarbonate resin lens for superior durability and light transmission
- High intensity illumination design
- Direct mount installation with a single hole
- Interchangeable modules do not need re-wiring, even after installation
- Corrosion resistant anodized aluminum body
- UL recognized File No. E215660
- NPN models IP42; PNP models IP65

MES-A ME-A

25mm LED Signal Towers Selection

Part Number	Price	Drawing Link	Modules		Polarity	Light Function	Wiring	Body Style	Mounting
			#	LED					
MES-102A-R	$93.00	PDF	1	red	NPN	Continuous light	460mm pigtail	Short body	Direct mount installation
MES-202A-RG	$124.00	PDF	2	red, green					
MES-302A-RYG	$146.00	PDF	3	red, amber, green					
MES-402A-RYGB	$175.00	PDF	4	red, amber, green, blue					
MES-102P-R	$93.00	PDF	1	red	PNP				
MES-202P-RG	$114.00	PDF	2	red, green					
MES-302P-RYG	$151.00	PDF	3	red, amber, green					
MES-402P-RYGB	$175.00	PDF	4	red, amber, green, blue					
ME-102A-R	$93.00	PDF	1	red	NPN	Continuous light	300mm pigtail	Standard body	
ME-202A-RG	$124.00	PDF	2	red, green					
ME-302A-RYG	$156.00	PDF	3	red, amber, green					
ME-402A-RYGB	$184.00	PDF	4	red, amber, green, blue					
ME-102P-R	$93.00	PDF	1	red	PNP				
ME-202P-RG	$124.00	PDF	2	red, green					
ME-302P-RYG	$156.00	PDF	3	red, amber, green					
ME-402P-RYGB	$184.00	PDF	4	red, amber, green, blue					

Note: Please see the accessories section of this section for optional and/or replacement components.
Colors in order from left to right.

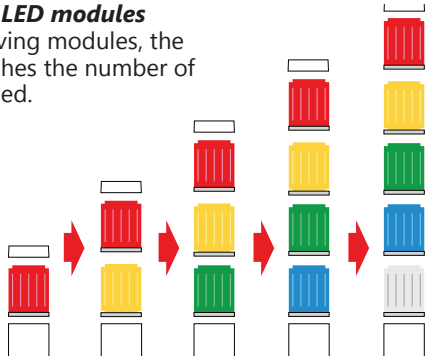
PATLITE® 25mm LED Signal Towers

Specifications

25mm LED Signal Towers Technical Specifications									
# of Tiers	*Part Number*	*Rated Voltage*	*Operating Voltage*	*Power Consumption*	*Weight g [oz]*				
1	*MES-102A-R*	24VDC	±10%	0.6 W	120 [4.23]				
	MES-102P-R								
	ME-102A-R				220 [7.76]				
	ME-102P-R								
2	*MES-202A-RG*			1.1 W	130 [4.59]				
	MES-202P-RG								
	ME-202A-RG				230 [8.11]				
	ME-202P-RG								
3	*MES-302A-RYG*			1.7 W	140 [4.94]				
	MES-302P-RYG								
	ME-302A-RYG				240 [8.47]				
	ME-302P-RYG								
4	*MES-402A-RYGB*			2.3 W	150 [5.29]				
	MES-402P-RYGB								
	ME-402A-RYGB				250 [8.82]				
	ME-402P-RYGB								
Signal wire current (Rated Current Consumption)	*LED Unit*	*Red*		*Amber*		*Green*		*Blue*	
		NPN	PNP	NPN	PNP	NPN	PNP	NPN	PNP
	Typical	25.2 mA		25.2 mA		13.3 mA	20.3 mA	13.3 mA	20.5 mA
	Max	30.2 mA	27.2 mA	29.2 mA		17.0 mA	23.8 mA	17.0 mA	27.0 mA
Luminosity		>1300 mcd	>350 mcd	>800 mcd	>700 mcd	>1100 mcd	>500 mcd	>500 mcd	>250 mcd
Wire Size		22AWG							
Operating ambient temperature		-10 to +55°C [+14 to +133°F]							
Operating ambient humidity		Less than 90% (no condensation)							
Vibration resistance		19.6 m/s² @ 30Hz							
Insulation resistance		More than 1MΩ at 500VDC between the terminals and the chassis							
Withstand voltage		500VAC applied for 1 min between terminals and chassis without breaking insulation							
Ingress protection rating		PNP models IP65, NPN models IP42							
*Conformity standards **		UL 508, CSA-C22.2 No.14, RoHs Directive (EN 50581)							

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

Easily add or replace LED modules
When adding or removing modules, the center screw that matches the number of tiers has to be purchased.



Interchangeable LED Modules
Color sequence is changeable by adding or removing up to 5 color modules even after installation.

NOTE: LED modules of the same color within a signal tower will light up simultaneously.

Wiring does not change
The LED module colors correspond to the wiring, so re-wiring is not necessary.

PATLITE® 25mm LED Signal Towers

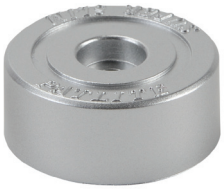
Accessories

Accessories for 25mm Signal Towers			
Part Number	*Price*	*Drawing Link*	*Description*
B72100223-1F1	$33.50	PDF	Red NPN LED module
B72100223-2F1	$33.50	PDF	Amber NPN LED module
B72100115-3F1	$33.50	PDF	Green NPN LED module
B72100115-4F1	$33.50	PDF	Blue NPN LED module
B72100115-7F1	$33.50	PDF	Clear/white NPN LED module
B72100226-1F1	$41.00	PDF	Red PNP LED module
B72100226-2F1	$41.00	PDF	Amber PNP LED module
B72100135-3F1	$41.00	PDF	Green PNP LED module
B72100135-4F1	$41.00	PDF	Blue PNP LED module
B72100135-7F1	$41.00	PDF	Clear/white PNP LED module
S33552110-0346F1	$6.00	N/A	1-tier center screw, zinc plated steel
S33552110-0376F1	$7.25	N/A	2-tier center screw, zinc plated steel
S33552110-03108F1	$7.25	N/A	3-tier center screw, zinc plated steel
S33552110-03138F1	$7.25	N/A	4-tier center screw, zinc plated steel
B32310020-F1	$9.25	PDF	25mm diameter cap, ABS plastic

B72100223, B72100115

B72100226, B72100135

S33552110

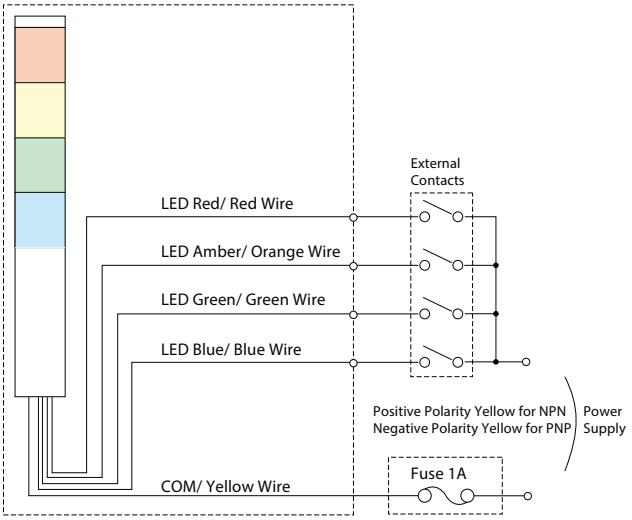


B32310020-F1

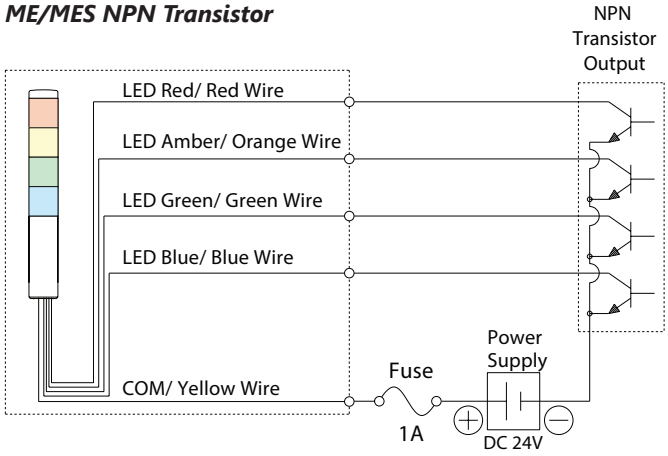
PATLITE® 25mm LED Signal Towers

Wiring

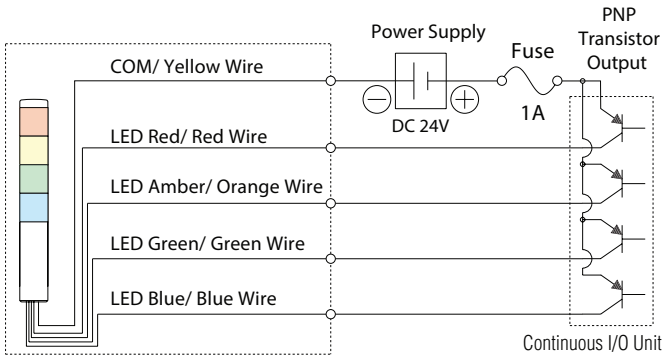
ME/MES Contact/Switch

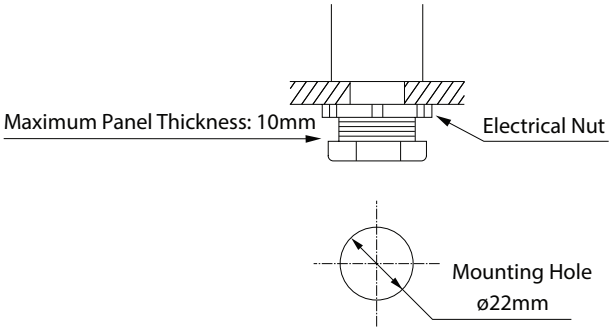


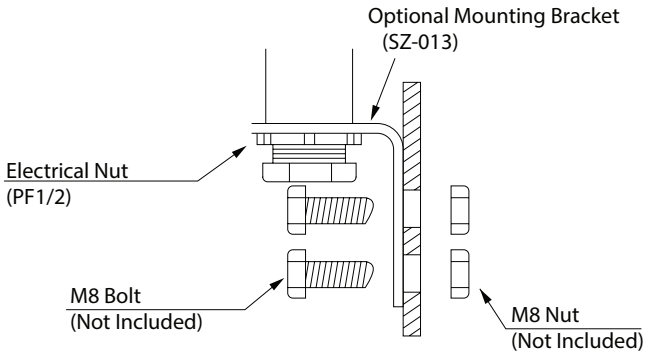
ME/MES NPN Transistor



ME/MES PNP Transistor



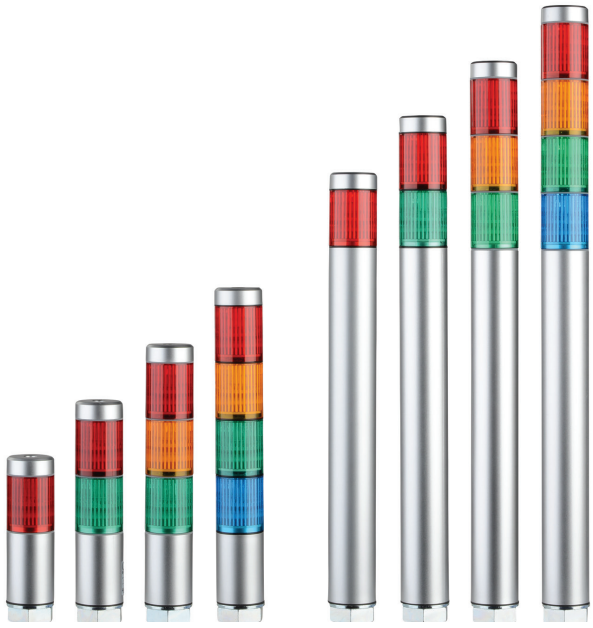




PATLITE® 30mm LED Signal Towers

Features

- Prism-cut lens design for enhanced visibility from any direction
- Double-insulated construction for enhanced durability and safety in the work environment.
- Direct mount installation with just a single hole.
- Interchangeable modules do not need re-wiring, even after installation
- Main body is constructed of superior impact and heat resistant ABS resin (not recommended for outdoor use).
- Lens is made of superior weather resistant and light translucent AS resin.
- Optional MP-B buzzer available. Please see accessories section for ordering information.
- UL recognized File No. E215660
- IP65 ingress protection rating



MPS MP

30mm LED Signal Towers Selection

Part Number	Price	Drawing Link	Modules			Polarity	Light Function	Wiring	Body Style	Mounting
			#	LED						
MPS-102-R	$93.00	PDF	1	red	–	NPN/PNP	Continuous light	1000mm pigtail	Short body	Direct mount installation
MPS-202-RG	$121.00	PDF	2	red, green	–					
MPS-302-RYG	$152.00	PDF	3	red, amber, green	–					
MPS-402-RYGB	$180.00	PDF	4	red, amber, green, blue	–					
MPS-102-RZ	$93.00	PDF	1	red	Clear lens					
MPS-202-RGZ	$126.00	PDF	2	red, green	Clear lens					
MPS-302-RYGZ	$156.00	PDF	3	red, amber, green	Clear lens					
MPS-402-RYGBZ	$184.00	PDF	4	red, amber, green, blue	Clear lens					
MPS-102C-R	$93.00	PDF	1	red	–			M12 Connector		
MPS-202C-RG	$114.00	PDF	2	red, green	–					
MPS-302C-RYG	$151.00	PDF	3	red, amber, green	–					
MP-102-R	$93.00	PDF	1	red	–			1180mm pigtail	Standard body	
MP-202-RG	$128.00	PDF	2	red, green	–					
MP-302-RYG	$151.00	PDF	3	red, amber, green	–					
MP-402-RYGB	$182.00	PDF	4	red, amber, green, blue	–					
MP-102-RZ	$100.00	PDF	1	red	Clear lens					
MP-202-RGZ	$128.00	PDF	2	red, green	Clear lens					
MP-302-RYGZ	$162.00	PDF	3	red, amber, green	Clear lens					
MP-402-RYGBZ	$186.00	PDF	4	red, amber, green, blue	Clear lens					
MP-102C-R	$93.00	PDF	1	red	–			M12 Connector		
MP-202C-RG	$128.00	PDF	2	red, green	–					
MP-302C-RYG	$157.00	PDF	3	red, amber, green	–					

Note: Please see the accessories section of this section for optional and/or replacement components. Colors in order from left to right.

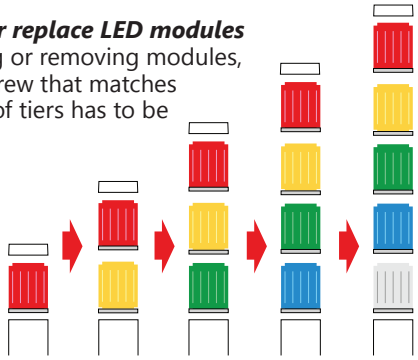
PATLITE® 30mm LED Signal Towers

Specifications

30mm LED Signal Towers Technical Specifications						
# of Tiers	*Part Number*		*Rated Voltage*	*Operating Voltage*	*Power Consumption*	*Weight g [oz]*
1	*MPS-102-R*		24V AC/DC	±10%	0.7 W	110 [3.88]
	MPS-102-RZ					
	MPS-102C-R		24VDC			
	MP-102-R		24V AC/DC			210 [7.41]
	MP-102-RZ					
	MP-102C-R		24VDC			
2	*MPS-202-RG*		24V AC/DC		1.4 W	130 [4.59]
	MPS-202-RGZ					
	MPS-202C-RG		24VDC			
	MP-202-RG		24V AC/DC			230 [8.11]
	MP-202-RGZ					
	MP-202C-RG		24VDC			
3	*MPS-302-RYG*		24V AC/DC		2.0 W	150 [5.29]
	MPS-302-RYGZ					
	MPS-302C-RYG		24VDC			
	MP-302-RYG		24V AC/DC			250 [8.82]
	MP-302-RYGZ					
	MP-302C-RYG		24VDC			
4	*MPS-402-RYGB*		24V AC/DC		2.6 W	170 [6.0]
	MPS-402-RYGBZ					
	MP-402-RYGB					270 [9.52]
	MP-402-RYGBZ					
Signal wire current (Rated Current Consumption)		*LED Unit*	*Red*	*Amber*	*Green*	*Blue*
		Typical	29.0 mA	29.5 mA	17.1 mA	17.1 mA
		Max	32.7 mA	34.5 mA	21.4 mA	21.4 mA
Luminosity			550mcd	650mcd	1900mcd	700mcd
Wire Size			22AWG			
Operating ambient temperature			-30 to +60°C [-22 to +140°F]			
Operating ambient humidity			Less than 90% (no condensation)			
Vibration resistance			19.6 m/s² @ 30Hz			
Insulation resistance			More than 1MΩ at 500VDC between the terminals and the chassis			
Withstand voltage			500VAC applied for 1 min between terminals and chassis without breaking insulation			
Ingress protection rating			IP65 (IEC 60529)			
*Conformity standards **			UL 508, CSA-C22.2 No.14, RoHs Directive (EN 50581)			

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

Easily add or replace LED modules
When adding or removing modules, the center screw that matches the number of tiers has to be purchased.



Interchangeable LED Modules
Color sequence is changeable by adding or removing up to 5 color modules even after installation.

NOTE: LED modules of the same color within a signal tower will light up simultaneously.

Wiring does not change
The LED module colors correspond to the wiring, so re-wiring is not necessary.

PATLITE® 30mm LED Signal Towers

Accessories

Accessories for Patlite® 30mm Signal Towers			
Part Number	*Price*	*Drawing Link*	*Description*
MP-B	$69.00	PDF	80dB @ 1 meter / 3,000Hz add-on alarm; activated by red module
B72100182-1F1	$41.00	PDF	Red LED module
B72100182-2F1	$41.00	PDF	Amber LED module
B72100182-3F1	$41.00	PDF	Green LED module
B72100182-4F1	$41.00	PDF	Blue LED module
B72100182-7F1	$41.00	PDF	Clear/white LED module
B72100192-1F1	$41.00	PDF	Red LED module with clear lens
B72100192-2F1	$41.00	PDF	Amber LED module with clear lens
B72100192-3F1	$41.00	PDF	Green LED module with clear lens
B72100192-4F1	$41.00	PDF	Blue LED module with clear lens
S33552120-0355F1	$6.00	N/A	1-tier center screw, zinc plated steel
S33552120-0390F1	$6.00	N/A	2-tier center screw, zinc plated steel
S33552120-03125F1	$7.25	N/A	3-tier center screw, zinc plated steel
S33552120-03160F1	$7.25	N/A	4-tier center screw, zinc plated steel
B25110032-F1	$7.25	N/A	LED module o-ring, silicone
SZ-904	$17.50	PDF	22mm to 3/4"FNPT adapter, aluminum
SZ-150	$22.50	PDF	220mm extension pole, ABS plastic
B32310025-F1	$9.25	PDF	30mm diameter cap, ABS plastic

MP-B

B72100xxx-xF1

SZ-150

SZ-904

S33552120-03xxxxx

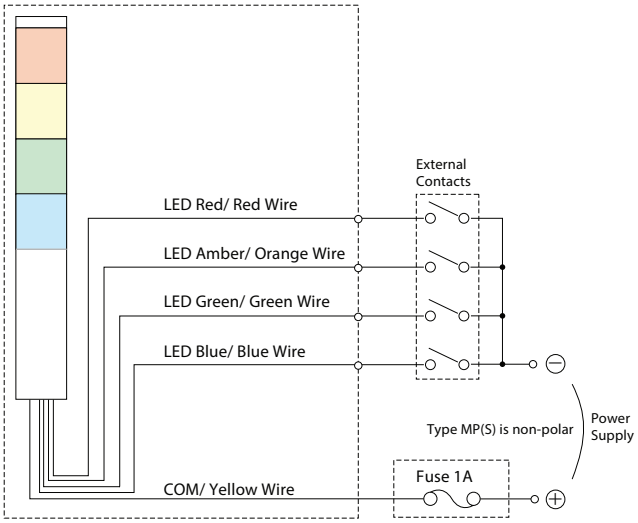
B32310025-F1

B25110032-F1

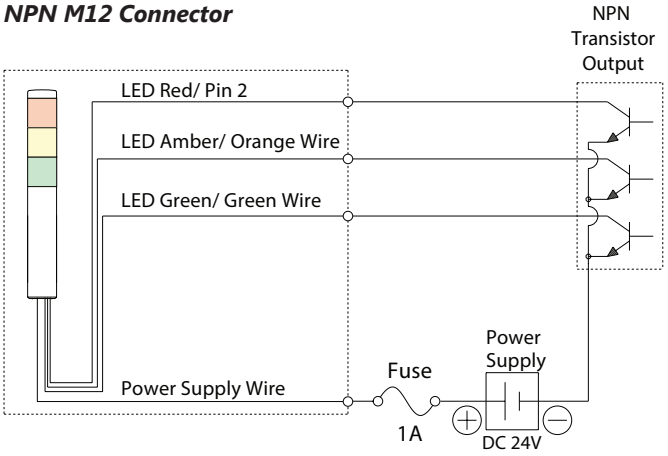
PATLITE® 30mm LED Signal Towers

Wiring

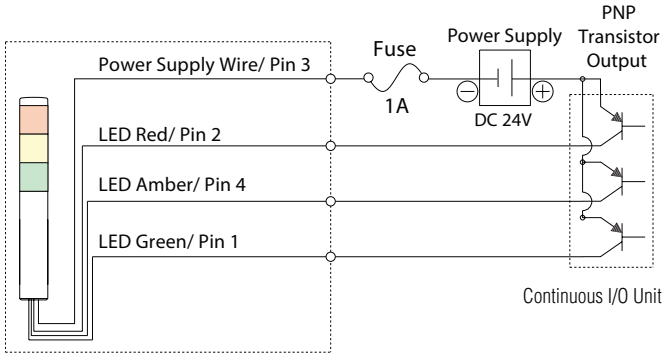
Contact/Switch

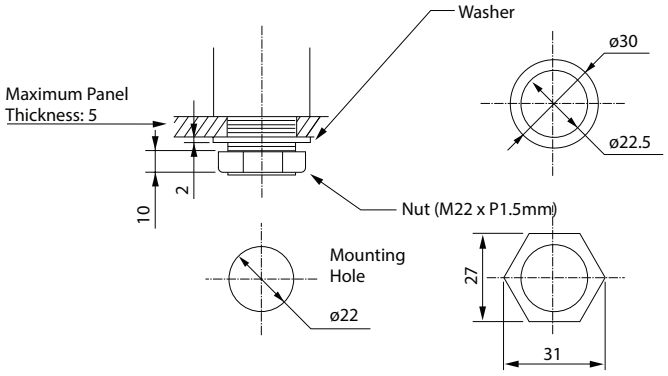


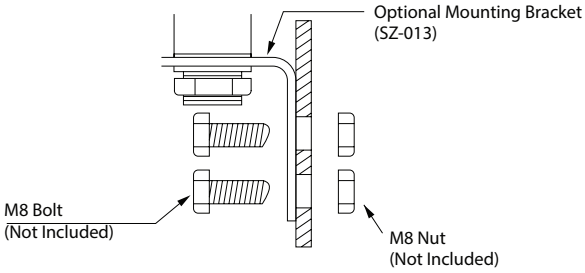
NPN M12 Connector



PNP M12 Connector







PATLITE® LR4 40mm LED Signal Towers

Features

- Prism-cut lens design for enhanced visibility from any direction
- Optional alarm module with selectable sound patterns
- Adjustable volume with a maximum of 85dB (at 1m)
- Direct or pole mount installation
- Color-coordinated wiring corresponding to the lens color for quick wiring and verification
- Interchangeable LED modules require no re-wiring, even after installation
- Main body is constructed of superior impact and heat-resistant polycarbonate resin
- Lens is made of superior impact-resistant and light-translucent polycarbonate resin
- Conforms to the CE requirements
- UL Recognized Components (File No. E215660)
- NEMA Type 4X/13

LR4 40mm LED Signal Towers Selection

Part Number	Price	Drawing Link	Modules		Function	Wiring	Mounting
			#	LED			
LR4-202LJBW-RG	$126.00	PDF	2	red, green	Continuous, flashing, or alarm	1000mm pigtail	300mm pole mount with L bracket
LR4-2M2LJBW-RG	$173.00	PDF					
LR4-302LJBW-RYG	$145.00	PDF	3	red, amber, green			
LR4-3M2LJBW-RYG	$188.00	PDF					
LR4-402LJBW-RYGB	$167.00	PDF	4	red, amber, green, blue			
LR4-4M2LJBW-RYGB	$218.00	PDF					
LR4-202LJNW-RG	$83.00	PDF	2	red, green	Continuous only		
LR4-2M2LJNW-RG	$133.00	PDF					
LR4-302LJNW-RYG	$106.00	PDF	3	red, amber, green			
LR4-3M2LJNW-RYG	$152.00	PDF					
LR4-402LJNW-RYGB	$133.00	PDF	4	red, amber, green, blue			
LR4-4M2LJNW-RYGB	$178.00	PDF					
LR4-202WJNW-RG	$73.00	PDF	2	red, green	Continuous only	1300mm pigtail	Direct mount
LR4-2M2WJNW-RG	$110.00	PDF					
LR4-302WJNW-RYG	$88.00	PDF	3	red, amber, green			
LR4-3M2WJNW-RYG	$132.00	PDF					
LR4-402WJNW-RYGB	$118.00	PDF	4	red, amber, green, blue			
LR4-4M2WJNW-RYGB	$167.00	PDF					
LR4-202WJBW-RG	$106.00	PDF	2	red, green	Continuous, flashing, or alarm		
LR4-2M2WJBW-RG	$152.00	PDF					
LR4-302WJBW-RYG	$129.00	PDF	3	red, amber, green			
LR4-3M2WJBW-RYG	$173.00	PDF					
LR4-402WJBW-RYGB	$152.00	PDF	4	red, amber, green, blue			
LR4-4M2WJBW-RYGB	$188.00	PDF					

Note: Please see the accessories section of this section for optional and/or replacement components.

PATLITE® LR4 40mm LED Signal Towers

Specifications

LR4 40mm LED Signal Towers Technical Specifications					
# of Tiers	*Part Number*	*Rated Voltage*	*Operating Voltage*	*Power Consumption (per module)*	*Weight g [oz]*
2	*LR4-202LJBW-RG*	24VDC	±10%	Typical: 1W Maximum: 1.3W	495 [17.5]
	LR4-202LJNW-RG				460 [16.2]
	LR4-202WJNW-RG				170 [6.0]
	LR4-202WJBW-RG				205 [7.2]
	LR4-2M2LJBW-RG	100-240 VAC	90-250 VAC	Typical: 1.5W Maximum: 1.8W	575 [20.3]
	LR4-2M2LJNW-RG				540 [19.0]
	LR4-2M2WJNW-RG				250 [8.8]
	LR4-2M2WJBW-RG				285 [10.1]
3	*LR4-302LJBW-RYG*	24VDC	±10%	Typical: 1W Maximum: 1.3W	495 [17.5]
	LR4-302LJNW-RYG				460 [16.2]
	LR4-302WJNW-RYG				170 [6.0]
	LR4-302WJBW-RYG				205 [7.2]
	LR4-3M2LJBW-RYG	100-240 VAC	90-250 VAC	Typical: 1.5W Maximum: 1.8W	575 [20.3]
	LR4-3M2LJNW-RYG				540 [19.0]
	LR4-3M2WJNW-RYG				250 [8.8]
	LR4-3M2WJBW-RYG				285 [10.1]
4	*LR4-402LJBW-RYGB*	24VDC	±10%	Typical: 1W Maximum: 1.3W	495 [17.5]
	LR4-402LJNW-RYGB				460 [16.2]
	LR4-402WJNW-RYGB				170 [6.0]
	LR4-402WJBW-RYGB				205 [7.2]
	LR4-4M2LJBW-RYGB	100-240 VAC	90-250 VAC	Typical: 1.5W Maximum: 1.8W	575 [20.3]
	LR4-4M2LJNW-RYGB				540 [19.0]
	LR4-4M2WJNW-RYGB				250 [8.8]
	LR4-4M2WJBW-RYGB				285 [10.1]

Signal wire current (Rated Current Consumption)	*Typical*	40mA
	Max	45mA
Wire sizes		AC: Signal wire 24AWG, power supply 18AWG DC: Signal wire 24AWG, power supply 24AWG
Buzzer current/sound (FB models)		Typical current 40mA, max current 300mA / sound level 85dB at 1000-4032 Hz (dependent on setting)
Flashing		60±2 flashes per minute
Operating ambient temperature		-20°C to +50°C [-4°F to +122°F]
Operating ambient humidity		Less than 90% (no condensation)
Vibration resistance		20 m/s² @ 30Hz
Insulation resistance		More than 1MΩ at 500VDC between live part and non-current carrying metallic part
Withstand voltage		LR4: 500VAC applied for 1 min between live part and non-current carrying metallic part LR4-M2: 1500VAC applied for 1 min between live part and non-current carrying metallic part
Ingress protection rating		IP54 for pole-mounted models; IP65 for direct mount; and NEMA type 4x and 13 for both
*Conformity standards **		UL 508, CSA-C22.2 No.14, RoHs Directive (EN 50581)

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

PATLITE® LR4 40mm LED Signal Towers

Tower Modules

Modules for LR4 Tower Lights**					
Part Number	*Price*	*Drawing Link*	*Description*	*Luminosity mcd*	*Weight g [oz]*
LR4-E-R	$21.00	PDF	Red LED module with red lens	2290	35 [1.23]
LR4-E-Y	$21.00	PDF	Amber LED module with amber lens	5250	
LR4-E-G	$25.00	PDF	Green LED module with green lens	5430	
LR4-E-B	$25.00	PDF	Blue LED module with blue lens	1840	
LR4-E-C	$25.00	PDF	White LED module with clear lens	8230	
LR4-E-RZ	$23.00	PDF	Red LED module with clear lens	2290	
LR4-E-YZ	$23.00	PDF	Amber LED module with clear lens	5250	
LR4-E-GZ	$27.00	PDF	Green LED module with clear lens	5430	
LR4-E-BZ	$27.00	PDF	Blue LED module with clear lens	1840	
LR4-BW	$28.50	PDF	40mm Buzzer module*, Off-white	8230	

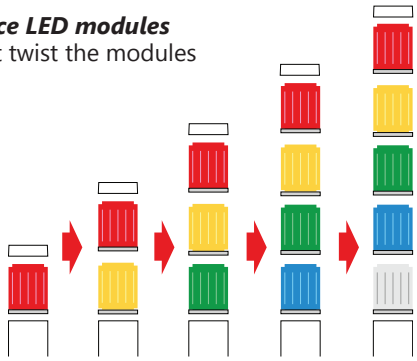
*** 85db at 1m, 4 selectable tones**
**** LR4 tower light modules are not compatible with LCE series lights.**

LR4-E-R

LR4-E-xZ

LR4-BW

Easily add or replace LED modules
No tool needed, just twist the modules together.



Interchangeable LED Modules
Color sequence is changeable by adding or removing up to 5 color modules even after installation.

NOTE: LED modules of the same color within a signal tower will light up simultaneously.

Wiring does not change
The LED module colors correspond to the wiring, so re-wiring is not necessary.

PATLITE® LR4 40mm LED Signal Towers

Accessories

Accessories for LR4 Signal Towers*			
Part Number	***Price***	***Drawing Link***	***Description***
B22210159-7F1	$17.50	PDF	Pole adapter, 40mm diameter. Head tapping screws, O-ring, and waterproof O-ring included. Off-white.
B25110047-F1	$10.50	N/A	Waterproof o-ring replacement, silicone.
B25110065-F1	$12.00	N/A	O-ring replacement, nitrile rubber.
B32310070-7F1	$10.50	N/A	Cap replacement, polycarbonate plastic, off-white.
LR4-02WJNW	$44.50	PDF	Body unit, 24VDC, 40mm diameter, direct mount. For use with 40mm terminal elements.
LR4-M2WJNW	$64.00	PDF	Body unit, 100-240 VAC, 40mm diameter, direct mount. For use with 40mm terminal elements.
POLE22-0100AN	$14.50	PDF	Mounting pole, 22mm diameter, 100mm length. For use with 40mm terminal elements.
POLE22-0100AT	$17.50	PDF	Threaded mounting pole, 22mm diameter, 100mm length, 22mm thread. For use with 40mm terminal elements.
POLE22-0300AN	$17.50	PDF	Mounting pole, 22mm diameter, 300mm length. For use with 40mm terminal elements.
POLE22-0300AT	$23.50	PDF	Threaded mounting pole, 22mm diameter, 300mm length, 22mm thread. For use with 40mm terminal elements.
POLE22-0500AN	$23.50	PDF	Mounting pole, 22mm diameter, 500mm length. For use with 40mm terminal elements.
POLE22-0500AT	$29.00	PDF	Threaded mounting pole, 22mm diameter, 500mm length, 22mm thread. For use with 40mm terminal elements.
POLE22-0800AN	$25.50	PDF	Mounting pole, 22mm diameter, 800mm length. For use with 40mm terminal elements.
POLE22-0800AT	$33.50	PDF	Threaded mounting pole, 22mm diameter, 800mm length, 22mm thread. For use with 40mm terminal elements.
POLE22-1000AN	$33.50	PDF	Mounting pole, 22mm diameter, 1000mm length. For use with 40mm terminal elements.
POLE22-1000AT	$41.00	PDF	Threaded mounting pole, 22mm diameter, 1000mm length, 22mm thread. For use with 40mm terminal elements.
SZK-001U	$22.50	PDF	Mounting bracket, side mount, aluminum, silver. For use with 40mm terminal elements.

*** LR4 tower light accessories are not compatible with LCE series lights.**

Continued on next page

B22210159-7F1

B32310070-7F1

B25110065-F1

LR4-02WJNW

POLE22-0300AT

SZK-001U

PATLITE® LR4 40mm LED Signal Towers

Accessories, continued

Accessories for LR4 Signal Towers *			
Part Number	*Price*	*Drawing Link*	*Description*
SZK-002W	$22.50	PDF	Mounting bracket, side mount, polycarbonate, off-white. For use with LR4 series direct mount.
SZL-001	$7.25	PDF	L-shaped mounting bracket, side mount, steel, silver. For use with 40mm terminal elements.
SZP-001W	$22.50	PDF	Mounting bracket, 70mm, flange mount, polycarbonate, off-white.
SZP-002U	$22.50	PDF	Mounting bracket, 94mm flange mount, aluminum, silver. For use with 40mm terminal elements.
SZP-003W	$12.00	PDF	Mounting bracket, 60mm, flange mount, polycarbonate, off-white.
SZP-090U	$37.00	PDF	Threaded pole adapter, 40mm diameter, 1/2" FNPT thread, aluminum, silver. Three (3) steel screw-tapped nuts included.
SZQ-001W	$17.50	PDF	Foldaway base, polycarbonate, off-white. For use with LR4 series direct mount 40mm terminal elements.

*** LR4 tower light accessories are not compatible with LCE series lights.**

SZK-002W

SZL-001

SZP-001W

SZP-002U

SZP-003W

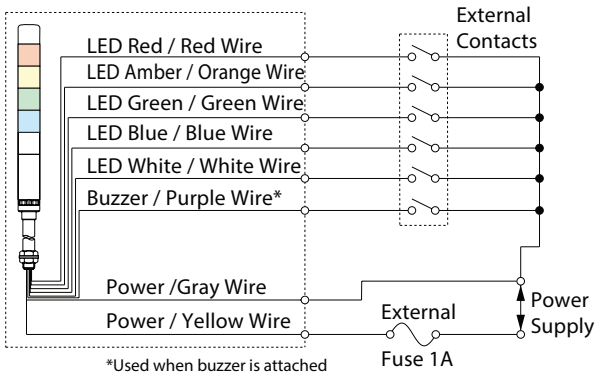
SZP-090U

SZQ-001W

PATLITE® LR4 40mm LED Signal Towers

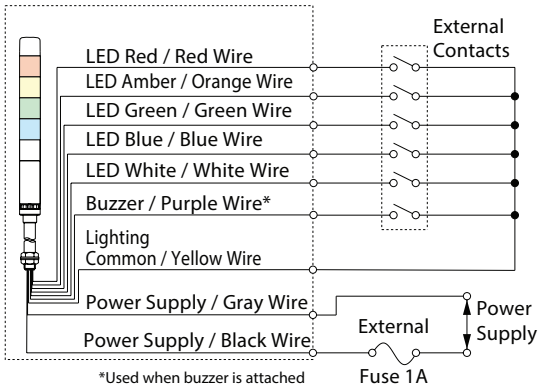
Wiring

24VDC Lighting Type



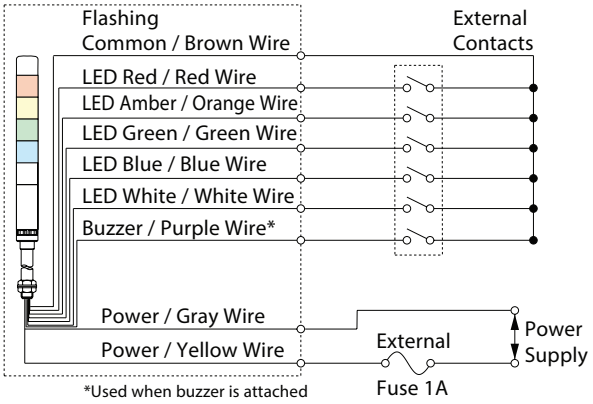
LR4 model non-polar

AC 100 - 240V Lighting Type



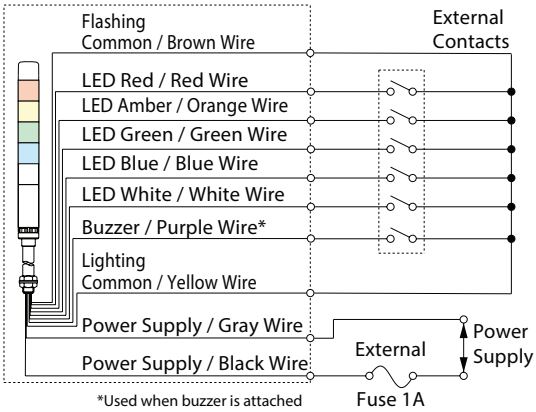
LR4 model non-polar

24VDC Flashing Type



LR4 model non-polar

AC 100 - 240V Flashing Type

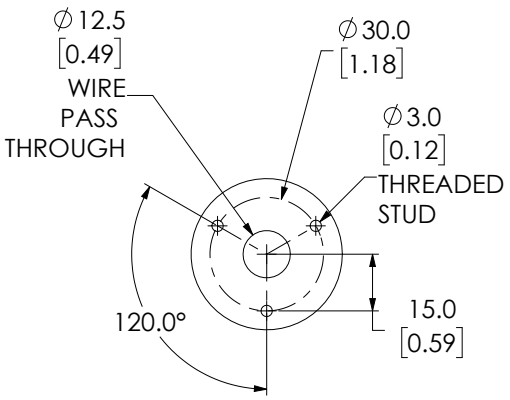


LR4 model non-polar

Lead Wire Color Coordination	
LED Unit Color	***Lead Wire Color***
Red	Red
Amber	Orange
Green	Green
Blue	Blue
Clear/white	White
Alarm Sounds	***Lead Wire Color***
Buzzer	Purple

Signal Line Voltage and Current per LED Module					
Model	***Rated Voltage***	***Signal Voltage***	***LED***	***Alarm***	
			Signal Line Current	***Signal Line Current***	***Inrush Current***
LR4	24V AC/DC	24VDC	40mA	40mA	700mA
LR4-M2	100-240 VAC	24VDC	40mA	40mA	700mA

Mounting Pattern



PATLITE® 70mm LED Signal Towers

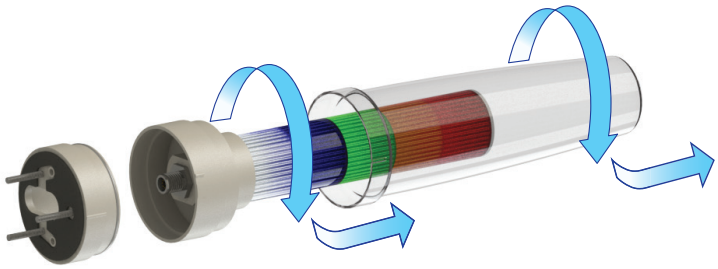
Features

- Smooth surfaced body
- Stackable design
- Shock-resistant polycarbonate body
- M12 connector quick disconnect
- Inner lens LED emits a more efficient light
- IP65 (buzzer models IP54; WC9 models IP69k)

LS7

70mm LED Signal Towers Selection							
Part Number	Price	Drawing Link	Lights		Body Color	Buzzer	Wiring
			#	Color			
LS7-302DWC-RYGNN	$162.00	PDF	3	red, amber, green	Dark gray	–	M12 Connector
LS7-502DWC-RYGBC	$264.00	PDF	5	red, amber, green, blue, white			
LS7-302DBWC-RYGNN	$209.00	PDF	3	red, amber, green		Yes	
LS7-502DBWC-RYGBC	$309.00	PDF	5	red, amber, green, blue, white			
LS7-302WC-RYGNN	$162.00	PDF	3	red, amber, green	Off-white	–	
LS7-502WC-RYGBC	$264.00	PDF	5	red, amber, green, blue, white			
LS7-302BWC-RYGNN	$209.00	PDF	3	red, amber, green		Yes	
LS7-502BWC-RYGBC	$309.00	PDF	5	red, amber, green, blue, white			
LS7-302DWC9-RYGNN	$322.00	PDF	3	red, amber, green	Dark gray	–	
LS7-502DWC9-RYGBC	$420.00	PDF	5	red, amber, green, blue, white			
LS7-302DBWC9-RYGNN	$373.00	PDF	3	red, amber, green		Yes	
LS7-502DBWC9-RYGBC	$466.00	PDF	5	red, amber, green, blue, white			
LS7-302WC9-RYGNN	$327.00	PDF	3	red, amber, green	Off-white	–	
LS7-502WC9-RYGBC	$420.00	PDF	5	red, amber, green, blue, white			
LS7-302BWC9-RYGNN	$361.00	PDF	3	red, amber, green		Yes	
LS7-502BWC9-RYGBC	$456.00	PDF	5	red, amber, green, blue, white			

Note: Please see the accessories section of this section for optional and/or replacement components.



Stackable construction, M12 quick disconnect

PATLITE® 70mm LED Signal Towers

Specifications

70mm LED Signal Towers Technical Specifications						
# of Tiers	**Part Number**	**Rated Voltage**	**Maximum Sound Pressure**	**Body Color**	**Type**	**Weight g [oz]**
3	LS7-302DWC-RYGNN	24VDC (±10%)	–	Dark gray	–	234 [8.25]
	LS7-302WC-RYGNN			Off-white		
	LS7-302DWC9-RYGNN			Dark gray	High temperature, high pressure, wash down safe	
	LS7-302WC9-RYGNN			Off-white		
	LS7-302DBWC-RYGNN		buzzer 1 = 82dB @ 1M / 2000Hz buzzer 2 = 85dB @ 1M / 2000/3000 Hz	Dark gray	–	288 [10.16]
	LS7-302BWC-RYGNN			Off-white		
	LS7-302DBWC9-RYGNN			Dark gray	High temperature, high pressure, wash down safe	
	LS7-302BWC9-RYGNN			Off-white		
5	LS7-502DWC-RYGBC		–	Dark gray	–	286 [10.09]
	LS7-502WC-RYGBC			Off-white		
	LS7-502DWC9-RYGBC			Dark gray	High temperature, high pressure, wash down safe	
	LS7-502WC9-RYGBC			Off-white		
	LS7-502DBWC-RYGBC		buzzer 1 = 82dB @ 1M / 2000Hz buzzer 2 = 85dB @ 1M / 2000/3000 Hz	Dark gray	–	352 [12.42]
	LS7-502BWC-RYGBC			Off-white		
	LS7-502DBWC9-RYGBC			Dark gray	High temperature, high pressure, wash down safe	
	LS7-502BWC9-RYGBC			Off-white		

Signal wire current (Rated Current Consumption)	**LED Unit**	**Red**	**Amber**	**Green**	**Blue**	**White**
	Typical	20mA	30mA			
	Max	35mA	40mA			
Luminosity		>490mcd	>1140mcd	>940mcd	>195mcd	>1000mcd
Buzzer Current Draw		40mA				
Operating ambient temperature		-30°C to +60°C [-22°F to +140°F]				
Operating ambient humidity		Less than 90% (no condensation)				
Vibration resistance		19.6 m/s² @ 30Hz				
Insulation resistance		More than 1MΩ at 500VDC between the terminals and the chassis				
Withstand voltage		500VAC applied for 1 min between terminals and chassis without breaking insulation				
Mass (tolerance ±10%)	**3 Tiers**	0.26 kg [0.57 lb]				
	5 Tiers	0.37 kg [0.82 lb]				
Ingress protection rating		Continuous illumination models: IP65 / Buzzer models: IP54 /WC9 models: IP69k				
Conformity standards *		UL 508, CSA-C22.2 No.14, RoHs Directive (EN 50581)				

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

PATLITE® 70mm LED Signal Towers

Accessories

Accessories for Patlite® 70mm Signal Towers			
Part Number	***Price***	***Drawing Link***	***Description***
SZ-100D	$31.00	PDF	150mm tall pedestal, dark gray
SZ-110D	$39.00	PDF	Wall mount bracket, dark gray
SZ-130D	$39.00	PDF	3-hole to 4-hole mounting adapter, dark gray
SZ-100	$31.00	PDF	150mm tall pedestal, off-white
SZ-110	$39.00	PDF	Wall mount bracket, off-white
SZ-130	$39.00	PDF	3-hole to 4-hole mounting adapter, off-white
B45110011-F1	$33.50	PDF	Outer cover, polycarbonate
Z35721039-F1	$10.50	N/A	O-ring for outer cover, silicone
Z35721038-056F1	$10.50	N/A	O-ring for base, silicone

SZ-100D

SZ-100

SZ-110D

SZ-110

SZ-130D

SZ-130

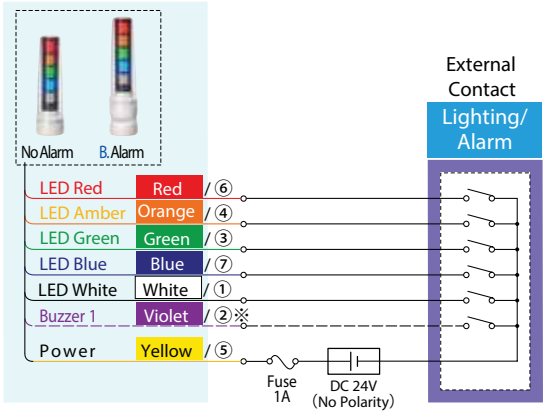
Z35721039-F1

Z35721038-056F1

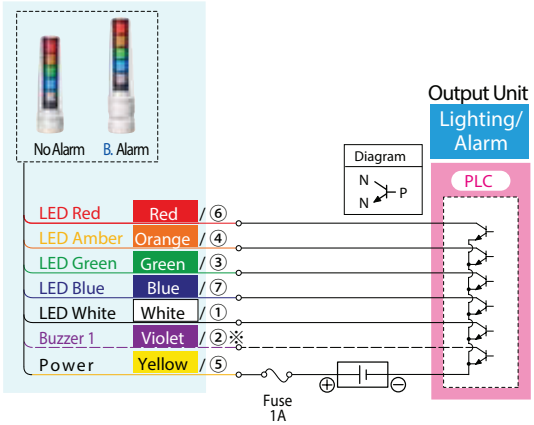
PATLITE® 70mm LED Signal Towers

Wiring

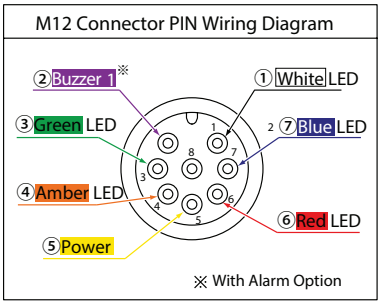
Contact Relay



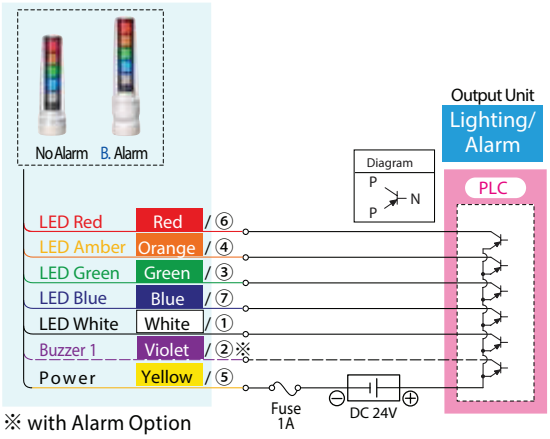
PLC (NPN Transistor)



LED colors associated with pin numbers



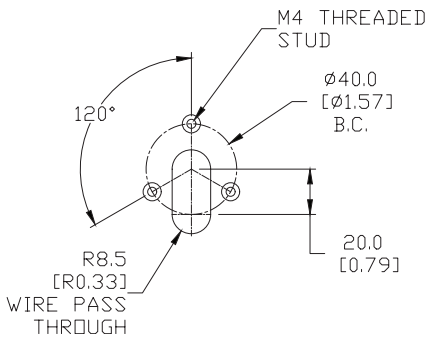
PLC (PNP Transistor)



※ with Alarm Option

LED colors associated with pin numbers

Mounting Pattern



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)

LKEH-102 LKEH-202 LKEH-302 LKEH-402

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

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

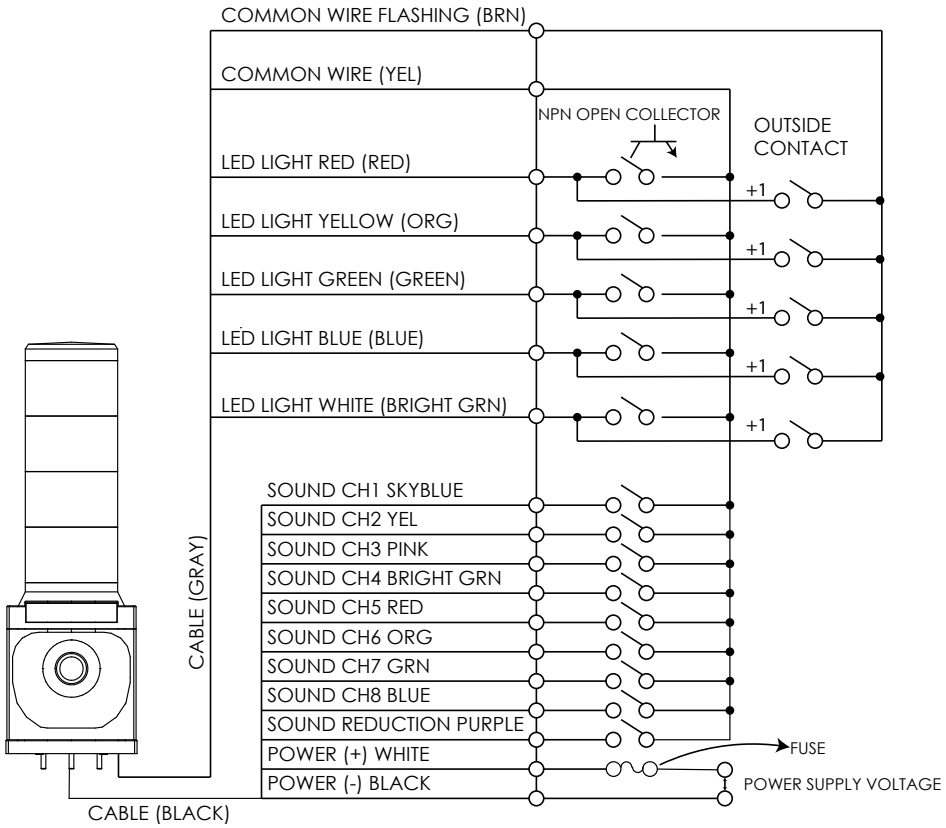
Signal Towers - LKEH Series Technical Specifications					
Model		***LKEH-102FEx-R***	***LKEH-202FEx-RG***	***LKEH-302FEx-RYG***	***LKEH-402FEx-RYGB***
Rated Voltage		24VDC			
Operating Voltage Range		24VDC ± 10%			
Rated Power Consumption		10.6 W	12.4 W	14.2 W	16.0 W
Operating Ambient Temperature		-10°C 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/s2 (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 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 At start of signal wire: 300ms or less			
Agency Approvals **		EMC Directive (EN 55011, EN 61000-6-2) RoHS Directive (EN 50581) UL 508, CSA-C22.2 No. 14 Conforms to CE requirements 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.**

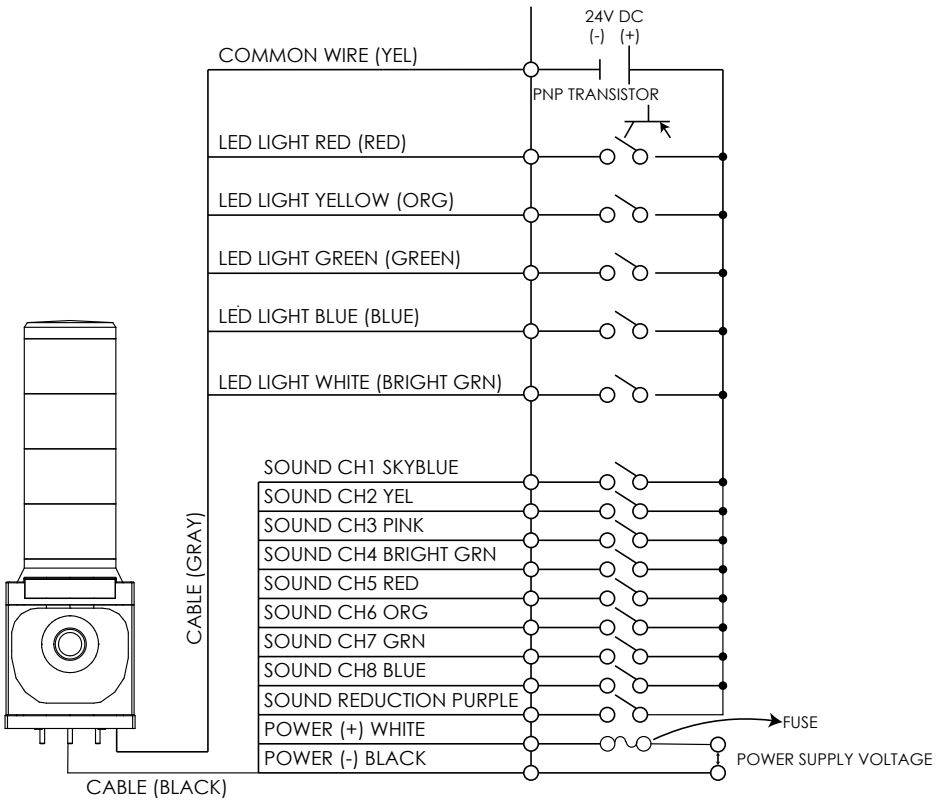
PATLITE® Signal Towers - LKEH Series

Wiring

NPN Wiring



PNP Wiring



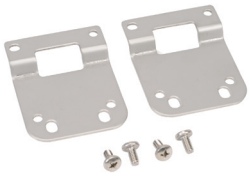
PATLITE® Industrial LED Lighting

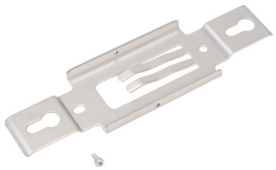
Aluminum LED Light Bars (CWK, CLK series)
These rust-free aluminum body light bars are designed to be bracket mounted. LED module lenses are clear and provide bright daylight white light. The super slim design is ideal for tight spaces. Up to IP69K options available.

Polycarbonate LED Light Bars (CWF series)
These lightweight polycarbonate LED light bars are designed to be bracket mounted. LED module lenses are clear and provide bright daylight white light. The super slim and lightweight design is ideal for tight spaces. Up to IP69K options available.

LED Signal Tower (HSST series)
An all-in-one package for controlling LR5 signal lights. Available red, amber, and green lights with clear lenses. Designed for indoor, upright installation. IP54 rated.

Accessories

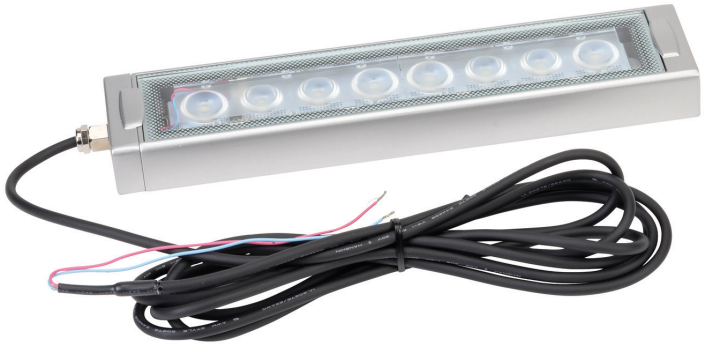




PATLITE® LED Light Bars - CWK Series

Features

- Unique lens design ensures optimal light distribution
- Daylight color, up to 1500lx illuminance
- Compact design with high resistance to debris and fluids
- Meets IP66/67 standards
- Designed to operate in temperatures from -10 to +50°C [+14 to +122°F]
- Three lengths available – 200, 300, and 600mm [7.9, 11.8, and 23.6 inches]
- Constructed of tempered glass and aluminum



LED Light Bars - CWK Series							
Part Number	***Price***	***Drawing Link***	***Description***	***Light Color***	***Body Material***	***Light Length (mm [in])***	***Cable Length m [ft]***
CWK2S-24-CD	$139.00	PDF	LED light bar, bracket mount, pigtail connector. Mounting bracket included.	Daylight white	Aluminum	200 [7.9]	3 [9.8]
CWK3S-24-CD	$164.00	PDF				300 [11.8]	
CWK6S-24-CD	$304.00	PDF				600 [23.6]	

Specifications

LED Light Bars - CWK Series Technical Specifications				
Part Number		***CWK2S-24-CD***	***CWK3S-24-CD***	***CWK6S-24-CD***
Luminous Color		Daylight white		
Color Temperature		6500K		
Illuminance (@24VDC)	***1.0 m***	600lx	850lx	1500lx
Luminous Flux		800lm	1200lm	2400lm
Rated Voltage		24VDC (polarized)		
Operating Voltage Range		24VDC ± 10%		
Rated Current Consumption		360mA ± 10%	480mA ± 10%	960mA ± 10%
Rated Power Consumption		8.64 W	11.52 W	23.04 W
Operating Ambient Temperature		-10°C to +50°C [+14°F to +122°F]		
Operating Ambient Humidity		Less than 90% (no condensation)		
Mounting Location		Indoors		
Mounting Direction		All directions		
Protection Rating		IP66/67 (JIS C0920)		
Insulation Resistance		More than 5MΩ at 500VDC		
Withstanding Voltage		500VAC applied for 1 minute between terminals and chassis		
Vibration Resistance		20.0 m/s2 (30Hz)		
Weight		600g [21.2 oz]	750g [26.5 oz]	1230g [43.4 oz]
Agency Approvals *		Conforms to CE requirements: EN 55015, EN61000-6-2 RoHS Directive (2011/65/EU) UL Listed (E306141)		

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

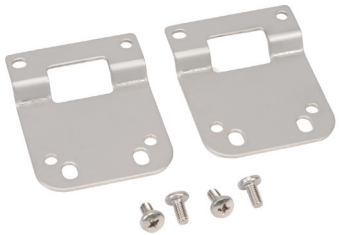
PATLITE® LED Light Bars - CLK Series

Features

- Unique lens design ensures optimal light distribution
- Daylight color, up to 2100lx illuminance
- Meets IP66/67/69K standards
- Designed to operate in temperatures from -40 to +60°C [-40 to +140°F]
- Three lengths available – 200, 300, and 600mm [7.9, 11.8, and 23.6 inches]
- Can be daisy-chained using M12 connectors
- Constructed of tempered glass and aluminum

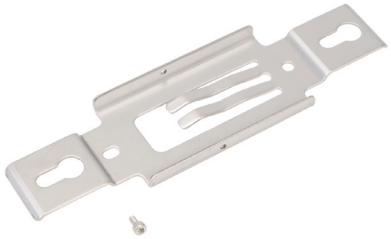
LED Light Bars - CLK Series							
Part Number	Price	Drawing Link	Description	Light Color	Body Material	Length (mm [in])	Cable Length
CLK3C-24AG-CD	$226.00	PDF	LED light bar, bracket mount, 4-pin M12 quick-disconnect connector. Mounting bracket included.	Daylight white	Aluminum	300 [11.8]	N/A
CLK6C-24AG-CD	$385.00	PDF				600 [23.6]	
CLK3CL-24AG-CD	$277.00	PDF	LED light bar, bracket mount. 4-pin M12 female and 4-pin M12 male connectors. Mounting bracket included.			300 [11.8]	
CLK6CL-24AG-CD	$436.00	PDF				600 [23.6]	

Accessories - CLK Series			
Part Number	Price	Drawing Link	Description
CLK-001	$20.00	PDF	Replacement rear bracket (aluminum) for CLK series light bars.
SZ-320KS	$28.50	PDF	Adjustable angle wall bracket (aluminum) for CLK series light bars.
L85130002-F1	$20.00	N/A	Sliding bracket for CLK series light bars.



CLK-001

SZ-320KS



L85130002-F1

PATLITE® LED Light Bars - CLK Series

Specifications

LED Light Bars - CLK Series Technical Specifications					
Part Number		***CLK3C-24AG-CD***	***CLK6C-24AG-CD***	***CLK3CL-24AG-CD***	***CLK6CL-24AG-CD***
Luminous Color		Daylight white			
Color Temperature		6500K			
Illuminance (@24VDC)	***1.0 m***	1200lx	2100lx	1200lx	2100lx
	2.0 m	300lx	580lx	300lx	580lx
Luminous Flux		1300lm	2600lm	1300lm	2600lm
Rated Voltage		24VDC (polarized)			
Operating Voltage Range		24VDC ± 10%			
Rated Current Consumption		522mA ± 10%	1044mA ± 10%	522mA ± 10%	1044mA ± 10%
Rated Power Consumption		12.5 W	25W	12.5 W	25W
Operating Ambient Temperature		-40 to +60°C [-40 to +140°F]			
Operating Ambient Humidity		Less than 90% (no condensation)			
Mounting Location		Indoors			
Mounting Direction		All directions			
Protection Rating		IP66/67 (JIS C0920) / 69K (DIN 40050 part 9)			
Insulation Resistance		More than 5MΩ at 500VDC between terminals and chassis			
Withstanding Voltage		500VAC applied for 1 minute between terminals and chassis			
Vibration Resistance		19.6 m/s2 (JIS C 0911-1984)			
Weight (g [oz])		600 [21.2]	1070 [37.7]	600 [21.2]	1070 [37.7]
Agency Approvals *		UL 2108, CSA-C22.2 No. 250.0 EMC Directive (EN 55015, EN 61000-6-2) RoHS Directive (EN 50581) Conforms to CE requirements UL Recognized (E306141)			

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

PATLITE® LED Light Bars - CWF Series

Features

- Both AC and DC versions available
- Daylight color, up to 445lx illuminance
- Includes on/off switch for light control
- Meets IP20 standards
- AC versions designed to operate in temperatures from -20 to +50°C [-4 to +122°F]
- DC versions designed to operate in temperatures from -25 to +60°C [-13 to +140°F]
- Three lengths available – 300, 600, and 900mm [11.8, 23.6, and 35.4 inches]
- Constructed of polycarbonate and aluminum

LED Light Bars - CWF Series							
Part Number	*Price*	*Drawing Link*	*Description*	*Light Color*	*Body Material*	*Length (mm [in])*	*Cable Length m [ft]*
CWF6S-M2U-CD	$144.00	PDF	LED light bar with on/off switch, bracket mount, pigtail connector, AC input. Mounting bracket included.	Daylight white	Polycarbonate/ Aluminum	600 [23.6]	3 [9.8]
CWF9S-M2U-CD	$166.00	PDF				900 [35.4]	
CWF3S-24-CD	$84.00	PDF	LED light bar with on/off switch, bracket mount, pigtail connector, DC input. Mounting bracket included.			300 [11.8]	

Accessories - CWF Series			
Part Number	*Price*	*Drawing Link*	*Description*
CWF-001	$11.00	PDF	Swivel bracket (aluminum) for CWF series light bars
CWF-002	$11.00	PDF	Magnet for CWF series light bars
ZM0000028-F1	$20.00	N/A	Replacement rear bracket (nickel plated steel) for CWF series light bars

CWF-001

CWF-002

ZM0000028-F1

PATLITE® LED Light Bars - CWF Series

Specifications

LED Light Bars - CWF Series Technical Specifications				
Model		***CWF6S-M2U-CD***	***CWF9S-M2U-CD***	***CWF3S-24-CD***
Luminous Color		Daylight white		
Color Temperature		5700K		
Illuminance (@24VDC)	***1.0 m***	320lx	445lx	165lx
Luminous Flux		1000lm	1500lm	500lm
Rated Voltage		100-240VAC (50/60Hz)		24VDC (polarized)
Operating Voltage Range		100-240VAC ± 10%		24VDC ± 10%
Rated Current Consumption		0.13 A	0.17 A	-
Rated Power Consumption		10W	15W	5W
Operating Ambient Temperature		-20°C to +50°C [-4°F to +122°F]		-25°C to +60°C [-13°F to +140°F]
Operating Ambient Humidity		Less than 90% (no condensation)		
Mounting Location		Indoors		
Mounting Direction		All directions		
Protection Rating		IP20		
Insulation Resistance		More than 5MΩ at 500VDC between live part and non-current carrying metallic part		
Withstanding Voltage		1500VAC applied for 1 minute between live part and non-current carrying metallic part		500VAC applied for 1 minute between live part and non-current carrying metallic part
Weight (g [oz])		680 [24.0]	840 [29.6]	420 [14.8]
Agency Approvals *		UL 1598, CSA C22.2 No. 250.0 FCC Part 15 Subpart B Class A		UL 1598, CSA C22.2 No. 250.0 EMC Directive (EN 61000-6-4, EN 6100-6-2) FCC Part 15 Subpart B Class A

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

Industrial LED Lighting

CA0121S0602

Compact Alpha Series

Designed for use in different work environments.
A compact construction combining state-of-the art LED technology with a sturdy, anodized aluminum casing highly resistant to liquids and machine tool debris. Suitable in any workplace where the space is very limited, but at the same time requires high-performance and intense lighting.

TA0221S0403

TRACKALPHA Series

Designed for universal use.
Lighting system for industrial automation, medium and large CNC applications. Lamp with sturdy anodized aluminum structure resistant to shavings, vibrations, front diffusing tempered glass 0.20" (5mm) thick. Suitable in any workplace where there are liquids and oils.

TA0524S0203

TRACKALPHA-PRO Series

Lighting system suitable for industrial automation, medium and large CNC applications. Lamp with sturdy anodized aluminum structure resistant to shavings, vibrations, clear tempered frosted glass 0.20" (5mm) thick. Suitable in any workplace where there are liquids and oils.

HN0221S0303

Herionova Recessed Series

Used in large CNC machines or when brighter illumination in wet industrial environments is required.
Also suitable for industrial applications such as automation processes and medium CNC machines. State-of-the art Light Emitting Diode (LED) technology inside a robust, anodized aluminum casing, resistant to vibrations and machining debris, front tempered frosted glass 0.16 in (4mm) thick. Particularly suitable in workplaces where oils and other liquids are in use.

HN0221S0307

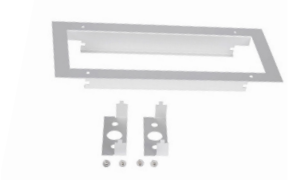
Herionova Cable Series

Used for application in diverse working environments.
Suitable for industrial applications, automation processes, medium and large CNC machines. State-of-the art Light Emitting Diode (LED) technology inside a robust, anodized aluminum casing, resistant to vibrations and machining debris, front tempered frosted glass 0.16 in (4mm) thick. Particularly suitable in workplaces where oils and other liquids are in use.

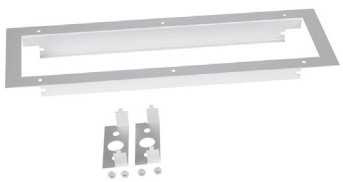
Accessories

CAFX02

TAFX03



HNFX03



HNFX04

HNFX05

HNFX07

HNFX02

TACLIP

HNFX06

LED Light Bars - Compact Alpha Series

Features

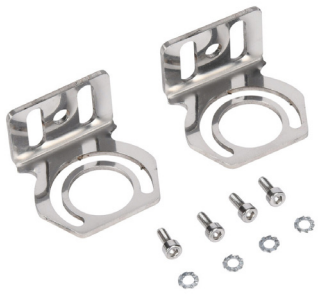
- Housing made entirely of anodized aluminum
- Outer diameter 1.57 in (40mm) to be integrated into confined workspaces
- 4 lengths available from 8.03 in (204mm) to 25.74 in (654mm)
- Operating temperature -20 to +45°C [-4 to +113°F]
- Wide light beam- 110°
- LED lifespan: (L 70) > 60,000 h
- Light color 5,000 K CRI 80
- Power supply 24VDC
- 9.8 ft (3m) power cord
- Attach with included CAFX02 side-mounting brackets
- 4-year warranty

CA0121S0602

LED Light Bars - Compact Alpha Series								
Part Number	*Price*	*Light Color*	*Operating Voltage*	*Power Consumption (Watts)*	*Body Material*	*Light Length in [mm]*	*Cable Length ft [m]*	*Drawing Link*
CA0121S0602	$109.00	daylight white	24VDC	6	anodized aluminum	8.03 [204]	9.8 [3]	PDF
CA0221S0602	$145.00			12		13.94 [354]		PDF
CA0321S0602	$185.00			18		19.84 [504]		PDF
CA0421S0602	$207.00			24		25.74 [654]		PDF

Mounting bracket included with each light bar.

Replacement Bracket - Compact Alpha Series			
Part Number	*Price*	*Description*	*Drawing Link*
CAFX02	$21.00	CCEA side bracket, replacement, stainless steel. For use with CCEA Compact Alpha series LED light bars.	PDF



CAFX02

LED Light Bars - Compact Alpha Series Specifications

Specifications

LED Light Bars - Compact Alpha Series Technical Specifications				
Part Number	***CA0121S0602***	***CA0221S0602***	***CA0321S0602***	***CA0421S0602***
Luminous Color	Daylight white			
Color Temperature	5000K			
Luminous Flux (lm)	600	1,200	1,800	2,400
Rated Voltage	24VDC			
Operating Voltage Range	18-48 VDC			
Rated Current Consumption	0.25 A @ 24VDC	0.50 A @ 24VDC	0.75 A @ 24VDC	1A @ 24VDC
Rated Power Consumption (Watts)	6	12	18	24
Operating Ambient Temperature	-20 to +45°C [-4 to +113°F]			
Operating Ambient Humidity	Less than 90% (no condensation)			
Mounting Location	Indoors			
Mounting Direction	All directions			
Protection Rating	IP67			
Insulation Resistance	More than 5MΩ at 500VDC between the terminals and the chassis			
Withstanding Voltage	500VAC applied for 1 minute between terminals and chassis without breaking insulation			
Vibration Resistance	19.6 m/s^2 (30Hz, back and forth: 2h, right to left: 2h, up and down: 2h)			
Weight (lb (kg))	1.15 (0.52)	1.65 (0.75)	2.10 (0.95)	2.70 (1.23)
Agency Approvals *	cURus in compliance with UL2108 CE			

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

LED Light Bars - TRACKALPHA Series

Features

- Structure made entirely of anodized aluminum
- Outer diameter 2.76 in (70mm) to be integrated into most workspaces
- 5 lengths from 12.6 in (321mm) to 50.43 in (1281mm)
- Protection rating IP67
- Operating temperature -20 to +45°C [-4 to +113°F]
- Diffused light beam 120°
- LED lifespan: (L 70) > 60,000 hours
- Light color 5,000 K - CRI 80
- Power supply 24VDC
- 9.8 ft (3m) power cord
- Attach with included TAFX03 side-mounting brackets
- 4-year warranty

TA0221S0403

LED Light Bars - TRACKALPHA Series								
Part Number	*Price*	*Light Color*	*Operating Voltage*	*Power Consumption (Watts)*	*Body Material*	*Light Length in [mm]*	*Cable Length ft [m]*	*Drawing Link*
TA0221S0403	$164.00	Daylight white	24VDC	13	Anodized aluminum	12.6 [321]	9.8 [3]	PDF
TA0321S0403	$188.00			19.5		17.36 [441]		PDF
TA0521S0403	$258.00			32.5		26.81 [681]		PDF
TA0721S0403	$335.00			45.5		36.25 [921]		PDF
TA1021S0403	$465.00			65		50.43 [1,281]		PDF

Mounting brackets included with each light bar.

Accessories - TRACKALPHA Series			
Part Number	*Price*	*Description*	*Drawing Link*
TACLIP	$25.00	CCEA rear mounting clips, replacement, aluminum. For use with CCEA TRACKALPHA and TRACKALPHA-PRO series LED light bars.	PDF
TAFX03	$27.00	CCEA side bracket, replacement, stainless steel. For use with CCEA TRACKALPHA series LED light bars.	PDF

TACLIP

TAFX03

LED Light Bars - TRACKALPHA Series Specifications

Specifications

LED Light Bars - TRACKALPHA Series Technical Specifications					
Part Number	***TA0221S0403***	***TA0321S0403***	***TA0521S0403***	***TA0721S0403***	***TA1021S0403***
Luminous Color	Daylight white				
Color Temperature	5000K				
Luminous Flux (lm)	1,300	1,950	3,250	4,550	6,500
Rated Voltage	24VDC				
Operating Voltage Range	22-28 VDC				
Rated Current Consumption	0.54 A @ 24VDC	0.81 A @ 24VDC	1.35 A @ 24VDC	1.90 A @ 24VDC	2.71 A @ 24VDC
Rated Power Consumption (W)	13	19.5	32.5	45.5	65
Operating Ambient Temperature	-20 to +45°C [-4 to +113°F]				
Operating Ambient Humidity	Less than 90% (no condensation)				
Mounting Location	Indoors				
Mounting Direction	All directions				
Protection Rating	IP67				
Insulation Resistance	More than 5MΩ at 500VDC between the terminals and the chassis				
Withstanding Voltage	500VAC applied for 1 minute between terminals and chassis without breaking insulation				
Vibration Resistance	19.6 m/s^2 (30Hz, back and forth: 2h, right to left: 2h, up and down: 2h)				
Weight (lb [kg])	2.65 [1.20]	3.64 [1.65]	5.62 [2.55]	7.28 [3.30]	10.25 [4.65]
Agency Approvals *	cURus in compliance with UL2108 CE				

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

LED Light Bars
TRACKALPHA-PRO Series

Features

- Housing made entirely of anodized aluminum
- Outer diameter 2.76 in (70mm) for confined workspaces
- 4 lengths available from 12.64 in (321mm) to 36.25 in (921mm)
- Operating temperature -20 to 45°C [-4 to 113°F]
- Light beam angle 120°
- LED lifespan: (L 70) > 60,000 h
- Light color 5,000 K CRI 80
- Power supply 120 VAC
- 9.8 ft (3m) power cord
- Attach with included TAFX03 side-mounting brackets
- 4-year warranty

TA0524S0203

LED Light Bars TRACKALPHA-PRO Series								
Part Number	*Price*	*Light Color*	*Operating Voltage*	*Power Consumption (Watts)*	*Body Material*	*Light Length in [mm]*	*Cable Length ft [m]*	*Drawing Link*
TA0224S0203	$240.00	Daylight white	120VAC	13	Anodized aluminum	12.64 [321]	9.8 [3] Pigtail	PDF
TA0324S0203	$295.00			19.5		17.36 [441]		PDF
TA0524S0203	$435.00			32.5		26.81 [681]		PDF
TA0724S0203	$515.00			45.5		36.25 [921]		PDF

Mounting brackets included with each light bar.

Accessories - TRACKALPHA-PRO Series			
Part Number	*Price*	*Description*	*Drawing Link*
TACLIP	$25.00	CCEA rear mounting clips, replacement, aluminum. For use with CCEA TRACKALPHA and TRACKALPHA-PRO series LED light bars.	PDF
TAFX03	$27.00	CCEA side bracket, replacement, stainless steel. For use with CCEA TRACKALPHA series LED light bars.	PDF

TACLIP

TAFX03

LED Light Bars TRACKALPHA-PRO Series Specifications

Specifications

LED Light Bars TRACKALPHA-PRO Series Technical Specifications				
Part Number	***TA0224S0203***	***TA0324S0203***	***TA0524S0203***	***TA0724S0203***
Luminous Color	Daylight white			
Color Temperature	5000K			
Luminous Flux (lm)	450	650	1000	1300 t
Rated Voltage	120VAC			
Operating Voltage Range	100 -120 VAC, 60Hz			
Rated Power Consumption (Watts)	13	19.5	32.5	46
Operating Ambient Temperature	-20 to 45°C [4 to 113°F]			
Operating Ambient Humidity	Less than 90% (no condensation)			
Mounting Location	Indoors			
Mounting Direction	All direction			
Protection Rating	IP67			
Impact Resistance	IK06			
Insulation Resistance	More than 5MΩ at 500VDC between the terminals and the chassis			
Withstanding Voltage	500VAC applied for 1 minute between terminals and chassis without breaking insulation			
Vibration Resistance	19.6 m/s^2 (30Hz, back and forth: 2h, right to left: 2h, up and down: 2h)			
Weight lb [kg]	3.20 [1.45]	4.08 [1.85]	5.78 [2.65]	7.72 [3.50]
Agency Approvals *	cURus in compliance with UL1598, CE			

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

LED Light Bars - Herionova Recessed Series

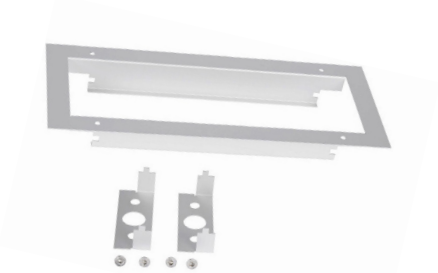
Features

- Structure made entirely of anodized aluminum
- Width of 3.94 in (100mm)
- 4 lengths from 12.95 in (329mm) to 38.34 in (974mm)
- Protection rating IP67
- Operating temperature -20 to +45°C [-4 to +113°F]
- Diffused light beam 120°
- LED lifespan (L 70) > 60,000 h
- Light color 5,000 K - CRI 80
- Power supply 24VDC
- 9.8ft (3m) power cord
- Class III IEC
- Recessed for a simple and quick installation with anodized aluminum frame
- 4-year warranty

HN0221S0303

LED Light Bars - Herionova Recessed Series								
Part Number	*Price*	*Light Color*	*Operating Voltage*	*Power Consumption (Watts)*	*Body Material*	*Light Length in [mm]*	*Cable Length ft [m]*	*Drawing Link*
HN0221S0303	$270.00	daylight white	24VDC	26.5	anodized aluminum	12.95 [329]	9.8 [3]	PDF
HN0321S0304	$342.00			40		18.03 [458]		PDF
HN0521S0305	$481.00			66.5		28.18 [716]		PDF
HN0721S0306	$619.00			93		38.34 [974]		PDF

Replacement Frames - Herionova Recessed Series			
Part Number	*Price*	*Description*	*Drawing Link*
HNFX03	$68.00	CCEA recessed frame, replacement, anodized aluminum. For use with CCEA HN0221S0303 LED light bar.	PDF
HNFX04	$87.00	CCEA recessed frame, replacement, anodized aluminum. For use with CCEA HN0321S0304 LED light bar.	PDF
HNFX05	$104.00	CCEA recessed frame, replacement, anodized aluminum. For use with CCEA HN0521S0305 LED light bar.	PDF
HNFX06	$121.00	CCEA recessed frame, replacement, anodized aluminum. For use with CCEA HN0721S0306 LED light bar.	PDF



HNFX03

HNFX04

HNFX05

HNFX06

LED Light Bars - Herionova Recessed Series Specifications

Specifications

LED Light Bars - Herionova Recessed Series Technical Specifications				
Part Number	***HN0221S0303***	***HN0321S0304***	***HN0521S0305***	***HN0721S0306***
Luminous Color	Daylight white			
Color Temperature	5000K			
Luminous Flux (lm)	2,400	3,600	6,000	8,400
Rated Voltage	24VDC			
Operating Voltage Range	22-36 VDC			
Rated Current Consumption	1.10 A @ 24VDC	1.67 A @ 24VDC	2.77 A @ 24VDC	3.88 A @ 24VDC
Rated Power Consumption (W)	26.5	40	66.5	93
Operating Ambient Temperature	-20 to +45°C [-4 to +113°F]			
Operating Ambient Humidity	Less than 90% (no condensation)			
Mounting Location	Indoors			
Mounting Direction	All directions			
Protection Rating	IP67			
Insulation Resistance	More than 5MΩ at 500VDC between the terminals and the chassis			
Withstanding Voltage	500VAC applied for 1 minute between terminals and chassis without breaking insulation			
Vibration Resistance	19.6 m/s^2 (30Hz, back and forth: 2h, right to left: 2h, up and down: 2h)			
Weight (lb [kg])	3.95 [1.79]	4.85 [2.20]	7.35 [3.33]	9.75 [4.42]
Agency Approvals *	cURus in compliance with UL2108 CE			

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

LED Light Bars - Herionova Cable Series

Features

- Structure made entirely of anodized aluminum
- Width of 3.94 in (100 mm)
- 4 lengths from 12.95 in (329mm) to 38.34 in (974mm)
- Protection rating IP67
- Operating temperature -20 to +45°C [-4 to +113°F]
- Diffused light beam 120°
- LED lifespan (L 70) > 60,000 h
- Light color 5,000 K - CRI 80
- Power supply 24VDC
- 9.8 ft (3m) power cord
- Class III IEC
- Attaching with included HNFX07 side-mounting brackets or optional HNFX02 rear swivel bracket
- 4-year warranty

HN0221S0307

LED Light Bars - Herionova Cable Series								
Part Number	*Price*	*Light Color*	*Operating Voltage*	*Power Consumption (Watts)*	*Body Material*	*Light Length in [mm]*	*Cable Length ft [m]*	*Drawing Link*
HN0221S0307	$255.00	daylight white	24VDC	26.5	anodized aluminum	12.95 [329]	9.8 [3]	PDF
HN0321S0307	$297.00			40		18.03 [458]		PDF
HN0521S0307	$418.00			66.5		28.18 [716]		PDF
HN0721S0307	$540.00			93		38.34 [974]		PDF

Mounting bracket included with each light bar

Replacement Brackets - Herionova Cable Series			
Part Number	*Price*	*Description*	*Drawing Link*
HNFX07	$30.00	CCEA side bracket, replacement, stainless steel. For use with CCEA Herionova series LED light bars.	PDF
HNFX02	$49.00	CCEA rear swivel arm bracket, stainless steel. For use with CCEA Herionova series LED light bars.	PDF

HNFX07

HNFX02

LED Light Bars - Herionova Cable Series Specifications

Specifications

LED Light Bars - Herionova Cable Series Technical Specifications				
Part Number	***HN0221S0307***	***HN0321S0307***	***HN0521S0307***	***HN0721S0307***
Luminous Color	Daylight white			
Color Temperature	5000K			
Luminous Flux (lm)	2,400	3,600	6,000	8,400
Rated Voltage	24VDC			
Operating Voltage Range	22-36 VDC			
Rated Current Consumption	1.10 A @ 24VDC	1.67 A @ 24VDC	2.77 A @ 24VDC	3.88 A @ 24VDC
Rated Power Consumption (W)	26.5	40	66.5	93
Operating Ambient Temperature	-20 to +45°C [-4 to +113°F]			
Operating Ambient Humidity	Less than 90% (no condensation)			
Mounting Location	Indoors			
Mounting Direction	All directions			
Protection Rating	IP67			
Insulation Resistance	More than 5MΩ at 500VDC between the terminals and the chassis			
Withstanding Voltage	500VAC applied for 1 minute between terminals and chassis without breaking insulation			
Vibration Resistance	19.6 m/s^2 (30Hz, back and forth: 2h, right to left: 2h, up and down: 2h)			
Weight (lb [kg])	4.50 [2.04]	5.53 [2.51]	8.39 [3.81]	11.09 [5.03]
Agency Approvals *	cURus in compliance with UL2108 CE			

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

LED Work Lights - Sirio Q Series

Overview

Sirio Q is an industrial-grade light bar applicable for tractors, trucks, trailers, off-road vehicles, and earth-moving machines. With up to 1750 lumen, Sirio Q is designed with a machine-made aluminum head combined with a pan & tilt flexible stainless-steel bracket, allowing to adjust the light in any direction. The hardened front glass and the two optic options with 40° or 60° opening angles provide an intense illumination onto the work area up to 1600 lux from 3-2/3 feet. Sirio Q is the LED work light luminaire certified with a IP67, IP69 protection rating and is even suitable for wet environments with oil, coolants, lubricants, and dust.

Features

- Anodized aluminum machine-made housing
- Hardened glass front protection resistant to debris impact
- Two optics 40° or 60° light beam angle
- 5000 K CRI 80 high power LED for intense and uniform illumination
- SRQFX01 pan & tilt head adjustment for a precise light adjustment
- IP67 and IP69 protection rating
- 4-year warranty

SR0921Q0501

SR0924Q0201

LED Work Lights - Sirio Q Series								
Part Number	*Price*	*Light Color*	*Operating Voltage*	*Power Consumption*	*Material*	*Light Beam Angle*	*Cable Length*	*Drawing Link*
SR0921Q0501	$215.00	Daylight white	12-24 VDC	16W	Body: Anodized aluminum Lens: Tempered glass 0.16 in [4 mm] thick	40° Optics	9.8 ft [3m] PVC	PDF
SR0921Q0601	$214.00		12-24 VDC	16W		60° Optics		PDF
SR0924Q0101	$230.00		120 VAC	17W		40° Optics		PDF
SR0924Q0201	$230.00		120 VAC	17W		60° Optics		PDF

Note: Mounting bracket included with each work light.

Replacement Bracket

- Robust, versatile and vibration resistant
- Installation with a flexible angle adjustment of 180°
- Made of chrome-plated stainless steel
- Suitable for high-vibrating applications
- Bracket-set in chromium-plated stainless steel
- Adjustment left and right rotation A = +90° /- 90°
- Adjustment front and back inclination (B) = +90° /- 90°

SRQFX01

Replacement Bracket - Sirio Q Series			
Part Number	*Price*	*Description*	*Drawing Link*
SRQFX01	$30.00	CCEA SIRIO Q series swivel bracket, replacement. For use with SIRIO Q series LED work light.	PDF

LED Work Lights - Sirio Q Series Specifications

Specifications

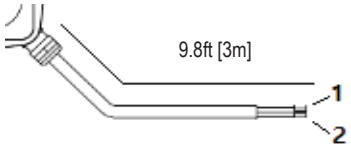
LED Work Lights - Sirio Q Series Technical Specifications				
Part Number	***SR0921Q0501***	***SR0921Q0601***	***SR0924Q0101***	***SR0924Q0201***
Luminous Color	Daylight white			
Color Temperature	5000K			
Luminous Flux (lm)	1750	1450	1050	1200
Operating Voltage Range	12-24 VDC		120 VAC 60Hz	
Rated Current Consumption	1.39 A @ 12VDC 0.66 A @ 24VDC		0.14 A	
Rated Power Input	16W @ 500mA		17W	
Operating Ambient Temperature	-20 to +45°C [4 to +113°F]			
Operating Ambient Humidity	88% +/-2%			
Device Protection	Voltage spike with built-in transient Voltage suppression diode		Voltage spike input	
Insulation Class	Class III		Class I	
Mounting Location	Wet location / Cabinet surface mount			
Mounting Direction	No mounting restrictions			
Protection Rating	IP67, IP69			
Impact resistance	1.00 N m/s			
Connection	Pigtail 9.8ft [3m]			
Weight	1.65 lbs [0.75 kg]			
Agency Approvals	cURus - File E506617, cURus - File E526603, CE			

To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.

Power Connection

12-24 VDC

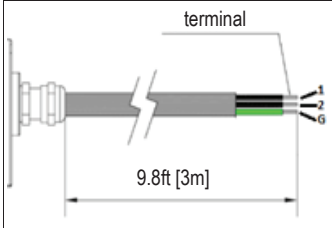
Conductor	Number	
Black	1	(+) 12 -24Vdc
Black	2	(-) 0V



Power Cord features
PVC outer sheath
20 AWG 2X0.75 mm2
UL -40°F - 176°F / (-40° +80° C)
9.8 ft- (3 m)

120 VAC

Conductor	Number	
Black 1	Hot 120V	Black 1
Black 2	NEUTRAL 0V	Black 2
Yellow/green	GROUND	Yellow/green



Power Cord features
PVC outer sheath
18 AWG 3G1 mm2
9.8 ft- (3 m)

PATLITE® Signal Towers - HSST Series

Features

- Low-cost kit for controlling LR5 signal tower manually
- Three-tier light with red, amber, and green light modules
- Includes 3-button switch box and power adapter
- Tower meets IP54 standards
- Designed to operate in temperatures from 0 to +40°C [+32 to +104°F]
- Tower is 219mm [8.6 in] long with 50mm [2.0 in] diameter lights

LR5-E-RZ

HSST-3M2-RYG

Signal Towers - HSST Series								
Part Number	*Price*	*Drawing Link*	*Description*	*Light Color*	*Lens Color*	*Body Color*	*Light Tower Length mm [in]*	*Diameter*
HSST-3M2-RYG	$211.00	PDF	Manual signal tower station kit, 3 tiers, permanent LED light function.	Red, Amber, Green	Clear	Off-white	219 [8.6]	50mm

Accessories - HSST Series		
Part Number	*Price*	*Description*
LR5-E-RZ	$20.00	Patlite LED light element, 50mm diameter, red, permanent or flashing (60 fpm +/- 3 fpm) light function, 24 VDC, clear lens. For use with HSST series manual signal tower station kit.
LR5-E-YZ	$20.00	Patlite LED light element, 50mm diameter, yellow, permanent or flashing (60 fpm +/- 3 fpm) light function, 24 VDC, clear lens. For use with HSST series manual signal tower station kit.
LR5-E-GZ	$26.50	Patlite LED light element, 50mm diameter, green, permanent or flashing (60 fpm +/- 3 fpm) light function, 24 VDC, clear lens. For use with HSST series manual signal tower station kit.
B32310071-7F1	$8.75	Patlite head cover, off-white, ABS plastic. For use with HSST series manual signal tower station kit.
T16000002-F1	$76.00	Patlite 3-button switch box, off-white, ABS plastic. For use with HSST series manual signal tower station kit.
T13300128-F1	$53.00	Patlite power supply, for use with HSST series manual signal tower station kit.

B32310071-7F1

T16000002-F1

T13300128-F1

PATLITE® Signal Towers - HSST Series

Specifications

Signal Towers - HSST Series Specifications		
Part Number		***HSST-3M2-RYG***
Rated Voltage		AC adapter input: 100-240VAC (50/60Hz) Output: 24VDC
Operating Voltage Range		100-240VAC ± 10%
Rated Power Consumption (Max)		4W
Operating Ambient Temperature		0 to +40°C [+32 to +104°F]
Operating Ambient Humidity		Less than 90% (no condensation)
Mounting Location		Indoors
Mounting Direction		Upright (recommended)
Protection Rating		Switch Box: IP20 Signal Tower: IP54
Insulation Resistance		More than 5MΩ at 500VDC between power input lead and chassis
Withstanding Voltage		1500VAC applied for 1 minute between live part and non-current carrying metallic part
Weight (g [oz])	***Signal Tower (Short Pole)***	360 [12.7]
	Signal Tower (Long Pole)	470 [16.6]
	Bracket	330 [11.6]
	Switch Box	70 [2.5]
	AC Adapter	140 [4.9]
	Fitting Plate	50 [1.8]
Agency Approvals *		RoHS Directive (EN 50581) FCC Part 15 Subpart B Class A UL 48, CSA C22.2 No. 207 UL Listed (File E310210)

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

Werma Modular Stack Lights Overview

WERMA SIGNALTECHNIK

Description

WERMA's modular stack light system offers total choice and flexibility as it allows for a completely free combination of optical and audible signal elements. The bayonet mechanism allows elements to be mechanically and electrically connected within seconds.

This means that elements can be safely and easily changed (contact-voltage proof) without the need for tools.

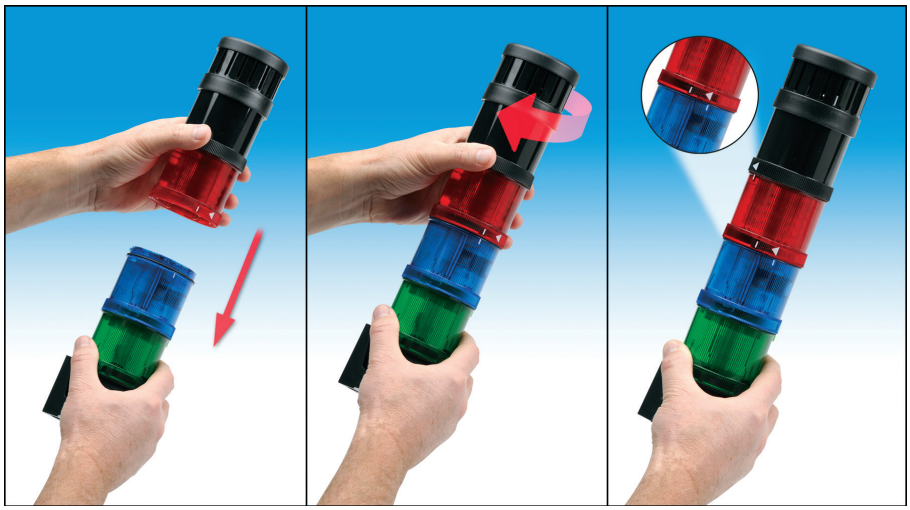
Typical product applications include; machine tools, packaging machines, conveyor systems, printing machines, loading docks, retail centers (check outs), queuing indicators for theme parks, and more.

Product highlights:

- Signal elements in common voltages (24V DC and 115V AC)
- Modular system allows combination as required
- Two different sizes (70 and 50 mm diameter)
- Five colors available
- Wide range of audible elements
- Diverse and flexible solutions

Simple assembly with bayonet mechanism

- Simple mounting and removal of the elements
- New combinations at the twist of a hand
- Tool-free bulb change
- Position marks to guide alignment



Werma Stack Lights Family Overview

Kombi*SIGN* 71

Modular IP65-rated stack light system with 70 mm diameter for use in standard applications.

KS 71 stack lights are available in 5 colors and multiple light effects (permanent, blinking, rotating, flashing). Multiple light sources (incandescent, LED, Xenon tube) and a wide variety of mountings are available. Combine up to 5 elements per terminal. Various terminal design choices are available as well as multiple voltages and audible elements up to 105 dB.

KS 71 Terminal Elements

Screw terminals

CAGE CLAMP® terminals

Kombi*SIGN* 50

Modular IP54-rated stack light system with 50 mm diameter for use on smaller machines.

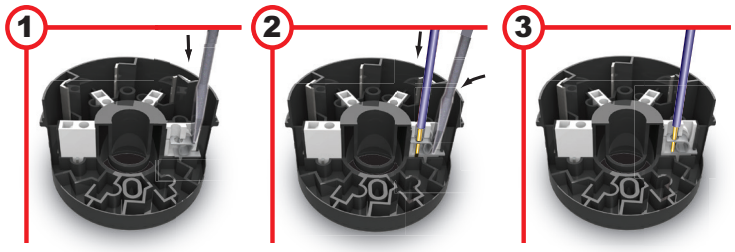
KS 50 stack lights are available in 5 colors with either permanent or blinking light effects in multiple voltages. A choice of incandescent or LED light sources is available as well as an 80 dB audible element. Elements can be combined in a variety of mountings, up to 4 elements per mounting for 360° of visibility.

KS 50 Terminal Element

Screw terminal

Safe and efficient connection thanks to CAGE CLAMP® technology

Terminal elements with CAGE CLAMP® technology enable leads to be quickly and easily wired, guaranteeing a secure and reliable contact.



Insert screwdriver at a slight angle into opening as far as possible.

Open spring-loaded clamp with the help of the screwdriver and insert wire as far as possible.

Remove screwdriver - the wire is firmly clamped.

CAGE CLAMP® is a registered trademark of WAGO Kotakttechnik GmbH.

Configuring Your Kombi*SIGN* 71 Stack Light

STEP 1

Select the required optical elements for your application

STEP 2

Select the optional audible elements for your application

STEP 3

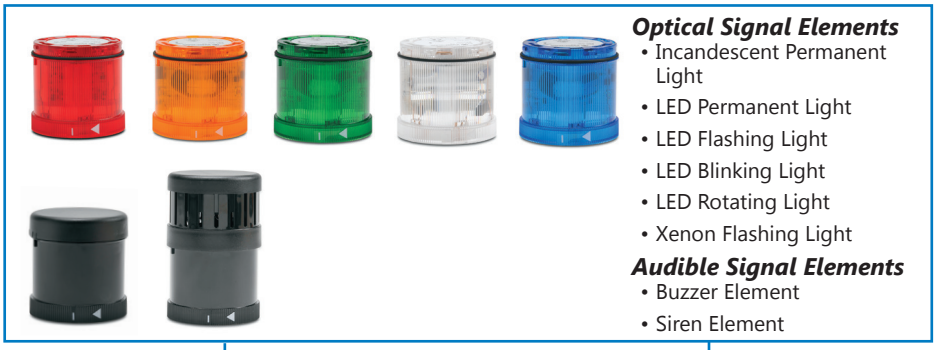
Select the correct terminal element for your mounting option (includes cap)

STEP 4

Where appropriate, select a base and the desired tube length (only for tube mounting)

STEP 5

Where appropriate, select the bracket and the contact box.



Optical Signal Elements

- Incandescent Permanent Light
- LED Permanent Light
- LED Flashing Light
- LED Blinking Light
- LED Rotating Light
- Xenon Flashing Light

Audible Signal Elements

- Buzzer Element
- Siren Element

Plain Base Mount

Tube Base Mount

Screw terminal
Order no. 64082000

CAGE CLAMP® terminal
Order no. 64080000

Screw terminal
Order no. 64083000

CAGE CLAMP® terminal
Order no. 64081000

Tube with clamp
Order no. 96000018

Adapter for single hole mounting
Order no. 96000025

Base with integrated tube
Order no. 97584010

Tube Ø 25 mm, all anodized

	Order no.
100 mm long	97584510
250 mm long	97584025
400 mm long	97584040
600 mm long	97584060
800 mm long	97584080
1000 mm long	97584003

Base for Tube, plastic
Order no. 97584090

Base for Tube, metal
Order no. 97584091

Foldaway Base
Order no. 96000030

Tube Ø 25 mm, plastic, only for Foldaway Base, 45 mm long
Order no. 96000031

Contact box with side cable exit
Order no. 97584001

Bracket for base mounting
Order no. 96000002

Bracket for 1-sided mounting
Order no. 97584085

Bracket for 2-sided mounting
Order no. 97584086

Contact box with side cable exit
Order no. 97584001

Contact box with magnetic base and side cable exit
Order no. 97584004

Bracket for base mounting with concealed cable entry
Order no.96000014

Bracket for tube mounting
Order no. 96000001

KS 71 Elements Quick Selection Guide

STEP 1 - Optical Elements Quick Selection Guide

Type of Light	Part Number	Color	Operating Voltage	Price
Incandescent Permanent*	64110000	Red	Depends on bulb selection (bulb sold separately)	$24.00
	64120000	Green		$24.00
	64130000	Yellow		$24.00
	64140000	Clear		$24.00
	64150000	Blue		$24.00
Incandescent Bulbs	95584035	Clear	24V AC/DC	$8.75
	95584038		230VAC	$8.75
	95584057		115V AC/DC	$8.75
LED Permanent	64410075	Red	24V AC/DC	$58.00
	64420075	Green		$58.00
	64430075	Yellow		$58.00
	64440075	Clear		$89.00
	64450075	Blue		$89.00
	64445055**	Multi	24VDC	$233.00
	64410067	Red	115VAC	$69.00
	64420067	Green		$69.00
	64430067	Yellow		$69.00
	64440067	Clear		$101.00
	64450067	Blue		$101.00
LED Flashing Light	64412055	Red	24VDC	$140.00
	64422055	Green		$140.00
	64432055	Yellow		$140.00
	64442055	Clear		$219.00
	64452055	Blue		$219.00
Xenon Flashing Light	64310055	Red	24VDC	$115.00
	64320055	Green		$115.00
	64330055	Yellow		$115.00
	64340055	Clear		$115.00
	64350055	Blue		$115.00
	64310067	Red	115VAC	$100.00
	64320067	Green		$100.00
	64330067	Yellow		$100.00
	64340067	Clear		$100.00
	64350067	Blue		$100.00
LED Blinking Light	64411075	Red	24V AC/DC	$77.00
	64421075	Green		$77.00
	64431075	Yellow		$77.00
	64441075	Clear		$101.00
	64451075	Blue		$101.00
	64411067	Red	115VAC	$80.00
	64421067	Green		$80.00
	64431067	Yellow		$80.00
	64441067	Clear		$112.00
	64451067	Blue		$112.00
LED Rotating Light	64413075	Red	24V AC/DC	$129.00
	64423075	Green		$129.00
	64433075	Yellow		$129.00
	64443075	Clear		$199.00
	64453075	Blue		$199.00

*** Bulbs are required for permanent incandescent optical element.**
**** The multicolor element can be combined with up to 2 additional signal elements.**

STEP 2 - Audible Elements Selection

Part Number	Description	Voltage	Tone Frequency	Max. Volume @ 1m	Price
64580075	Buzzer element	24V AC/DC	1.75 kHz	85dB	$58.00
64580077		115VAC			$69.00
64585055	Multi-functional siren, external trigger	24VDC	1.6 / 3.4 kHz	100dB	$116.00
64581055	Siren element with self-adjusting sound output	24VDC	2.5 kHz	100dB	$152.00

STEP 3 - Terminal Elements Selection

Part Number	Description	Mounting	Price
64082000	Screw terminal with M3 clamps	base bracket	$31.50
64080000	Terminal element with CAGE CLAMP® technology		$31.50
64083000	Screw terminal with M3 clamps	tube	$31.50
64081000	Terminal element with CAGE CLAMP® technology		$31.50

STEP 4 - Tube Mounting/Accessories Selection

Part Number	Description	Price
97584510	Anodized tube, 100mm [3.94 in] long	$13.50
97584025	Anodized tube, 250mm [9.84 in] long	$17.00
97584040	Anodized tube, 400mm [15.75 in] long	$22.50
97584060	Anodized tube, 600mm [23.62 in] long	$30.00
97584080	Anodized tube, 800mm [31.49 in] long	$38.50
97584003	Anodized tube, 1000mm [39.37 in] long	$52.00
96000018	Tube with clamp	$56.00
96000025	Adapter for single-hole mounting	$56.00
97584010	Base with integrated tube	$28.00
97584090	Plastic base for 25mm [0.98 in] diameter tube	$14.50
97584091	Metal base for 25mm [0.98 in] diameter tube	$22.50
96000031	Plastic tube for foldaway base	$9.50
97584002	Adapter for tube mounting	$10.50
96000004	Cable gland for surface mounting	$6.00
96000030	Foldaway base	$60.00

STEP 5 - Contact Boxes & Brackets Selection

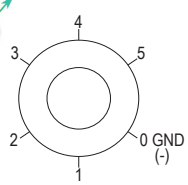
Mounting Option	Part Number	Description	Price
Plain Base Mount	97584001	Contact box with side exit cable	$20.00
	96000002	Bracket for base mounting	$18.00
	97584085	Bracket for 1-sided mounting	$15.00
	97584086	Bracket for 2-sided mounting	$17.00
Tube Base Mount	97584001	Contact box with side exit cable	$20.00
	97584004	Contact box w/ magnetic base and side cable exit	$55.00
	96000014	Bracket for base mounting w/ concealed cable entry	$22.00
	96000001	Bracket for tube mounting	$18.00

KS 71 Optical Elements Specifications

Optical Elements Technical Specifications

Part Number	Color	Drawing Link	Description	Voltage	Current	Starting Current	Operating Temp/ Protection	Life Duration	Flash Frequency	Housing Material	Weight g [oz]
64110000	Red	PDF	Incandescent Permanent Light Element with B15d Bayonet Socket	12-240 V Depends on bulb selection. (bulb sold separately)	Depends on bulb selection. (bulb sold separately)	–	-20 to 60˚C [-4 to 140˚F] IP65	up to 5,000h	–	Polycarbonate	55 [1.94]
64120000	Green	PDF									
64130000	Yellow	PDF									
64140000	Clear	PDF									
64150000	Blue	PDF									
64410075	Red	PDF	LED Permanent Light Element	24V AC/DC	max. 30mA	max. 500mA	-20 to 50˚C [-4 to 122˚F] IP65	up to 100,000h	–	Polycarbonate	58 [2.05]
64420075	Green	PDF			max. 25mA						
64430075	Yellow	PDF			max. 30mA						
64440075	Clear	PDF			max. 25mA						
64450075	Blue	PDF			max. 25mA						
64445055	Multi	PDF		24VDC	max. 120mA			up to 50,000h			63 [2.22]
64410067	Red	PDF		115VAC	max. 20mA	–	-20 to 50˚C [-4 to 122˚F] IP65	up to 100,000h	–	Polycarbonate	58 [2.05]
64420067	Green	PDF									
64430067	Yellow	PDF									
64440067	Clear	PDF									
64450067	Blue	PDF									
64412055	Red	PDF	LED Flashing Light Element	24VDC	35mA	max. 500mA	-20 to 50˚C [-4 to 122˚F] IP65	up to 50,000h	1Hz on for 2x10 ms	Polycarbonate	75 [2.65]
64422055	Green	PDF									
64432055	Yellow	PDF									
64442055	Clear	PDF									
64452055	Blue	PDF									
64310055	Red	PDF	Xenon Flashing Light Element	24VDC	125mA	max. 500mA	-20 to 50˚C [-4 to 122˚F] IP65	up to 4,000,000 flashes	1Hz on for 10 ms	Polycarbonate	73 [2.57]
64320055	Green	PDF									
64330055	Yellow	PDF									
64340055	Clear	PDF									
64350055	Blue	PDF									
64310067	Red	PDF		115VAC	22mA	–	-20 to 50˚C [-4 to 122˚F] IP65	up to 4,000,000 flashes	1Hz on for 10 ms	Polycarbonate	74 [2.61]
64320067	Green	PDF									
64330067	Yellow	PDF									
64340067	Clear	PDF									
64350067	Blue	PDF									
64411075	Red	PDF	LED Blinking Light Element	24V AC/DC	max. 30mA	max. 500mA	-20 to 50˚C [-4 to 122˚F] IP65	up to 100,000h	1Hz on for 550 ms	Polycarbonate	58 [2.05]
64421075	Green	PDF			max. 25mA						
64431075	Yellow	PDF			max. 30mA						
64441075	Clear	PDF			max. 25mA						
64451075	Blue	PDF			max. 25mA						
64411067	Red	PDF		115VAC	max. 20mA	–	-20 to 50˚C [-4 to 122˚F] IP65	up to 100,000h	1Hz on for 550 ms	Polycarbonate	58 [2.05]
64421067	Green	PDF									
64431067	Yellow	PDF									
64441067	Clear	PDF									
64451067	Blue	PDF									
64413075	Red	PDF	LED Rotating Light Element	24V AC/DC	max. 40mA	max. 500mA	-20 to 50˚C [-4 to 122˚F] IP65	up to 100,000h	120 rotations per minute	Polycarbonate	67 [2.36]
64423075	Green	PDF									
64433075	Yellow	PDF									
64443075	Clear	PDF									
64453075	Blue	PDF									

7 colors in one beacon: red, yellow, blue, green, turquoise, violet, and white.



Terminal Pin Activation of Multi-Color LED Permanent Light Element

Pin 1	Pin 2	Pin 3	Function
24V	–	–	Red
–	24V	–	Green
24V	24V	–	Yellow
–	–	24V	Blue
24V	24V	24V	White
24V	–	24V	Violet
–	24V	24V	Turquoise

Bulbs for Incandescent Permanent Optical Element

Part Number	Description	Wattage	Voltage	Life Duration
95584035	Bulb for incandescent light BA15d Bayonet Socket	5W	24VDC	up to 5,000h
95584038			230VAC	
95584057			115VAC	

KS 71 Audible Elements Specifications

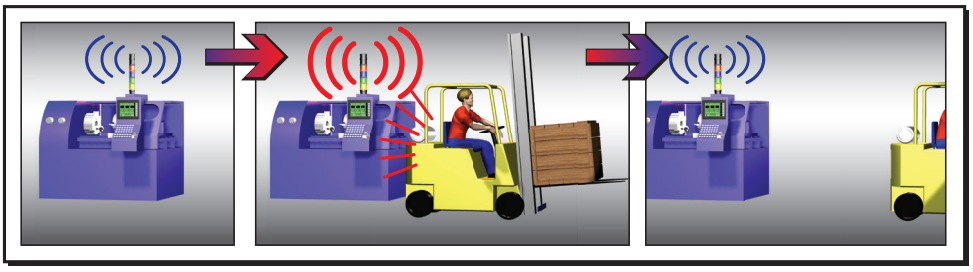
KS 71 Audible Elements Specifications			
Part Number	***64580075***	***64580077***	***64585055***
Price	$58.00	$69.00	$116.00
Drawing Link	PDF	PDF	PDF
Description	Buzzer Element		Multi-functional Siren
Voltage	24V AC/DC	115VAC	24VDC
Current Consumption	≤ 25mA		≤ 80mA
Tone Frequency	1.7 kHz		1.6 to 3.4 kHz
Maximum Volume	85dB		100dB
Tone Type	Continuous/Pulse Selectable		Up to 7 tones externally triggered
Life Duration	> 5000h		
Operating Temperature	-4 to 122˚F [-20 to 50˚C]		
Weight	74g [2.61 oz]	82g [2.89 oz]	77g [2.72 oz]
Housing Material	Polycarbonate		ABS, Polycarbonate

Note: Refer to insert for wiring diagram.
Number of tones available are limited by number of elements in stack.

Siren element with self-adjusting sound output

- Automatic sound output adjustment between 80 and100 dB
- Continual measurement of the ambient noise level
- Sound output is about 5 dB louder than the background noise level
- Ideal for applications with changing ambient sound levels

KS 71 Self-Adjusting Siren Element				
Part Number	***Price***	***Drawing Link***	***Technical Specifications***	
64581055	$152.00	PDF	Housing	Polycarbonate
			Tone type	Pulse tone
			Tone frequency	2.5 kHz
			Sound output	80dB - max. 100dB
			Operating Voltage	24VDC
			Starting Current	< 500mA
			Current consumption	≤ 150mA
			Life Duration	> 5000h
			Weight	125g [4.41 oz]
			Temperature Range	-4 to 122˚F [-20 to 50˚C]

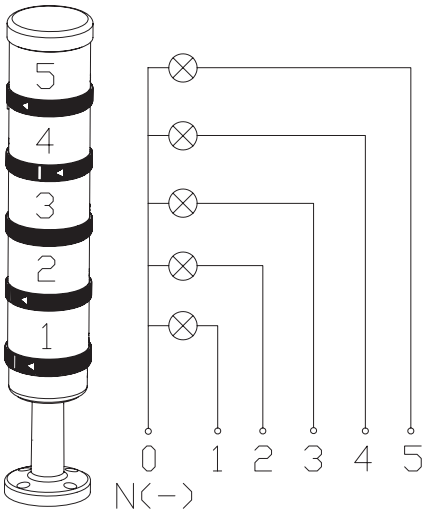


The siren element adjusts its sound output through continual measurement of the ambient noise level. The emitted tone is about 5dB louder than the background noise level. The warning signal can always be heard without being irritatingly loud for people in the siren's vicinity.

KS 71 Terminal Elements Specifications

KS 71 Terminal Element Specifications				
Part Number	***64082000***	***64080000***	***64083000***	***64081000***
Price	$31.50	$31.50	$31.50	$31.50
Drawing Link	PDF	PDF	PDF	PDF
Description	Screw terminal element with cap and seal	Screwless terminal element with cap and seal	Screw terminal element with cap	Screwless terminal element with cap
Mounting	Base and Bracket Mounting		Tube Mounting	
Connection	max. 2.5 mm² - single wire M3 Clamps	max. 2.5 mm² CAGE CLAMP® technology	max. 2.5 mm² - single wire M3 Clamps	max. 2.5 mm² CAGE CLAMP® technology
Cable Entry	Cable diameter max. 14mm [0.55 in]			
Operating Temperature	-20 to 50˚C [-4 to 122˚F]			
Torque	max 0.4 N·m	–	max 0.4 N·m	–
Gauge	AWG 18 to AWG 14			
Weight	83g [2.93 oz]	75g [2.65 oz]	84g [2.96 oz]	77g [2.72 oz]
Housing Material	Polyamide Glass Fiber-Reinforced			

Screw terminal element M3 clamps (including cap)



64080000

Terminal element with CAGE CLAMP® technology (including cap and seal)

KS 71 Mounting Hardware Specifications

KS 71 Mounting Hardware Specifications							
Part Number		Price	Description	Drawing Link	Operating Temp	Material	Weight g [oz]
	97584510	$13.50	Tube, 100 mm [3.94 in]	PDF	-20 to 50˚C [-4 to 122˚F]	Anodized Aluminum	30 [1.06]
	97584025	$17.00	Tube, 250 mm [9.84 in]	PDF			73 [2.57]
	97584040	$22.50	Tube, 400 mm [15.75 in]	PDF			120 [4.23]
	97584060	$30.00	Tube, 600 mm [23.62 in]	PDF			180 [6.35]
	97584080	$38.50	Tube, 800 mm [31.49 in]	PDF			236 [8.32]
	97584003	$52.00	Tube, 1000 mm [39.37 in]	PDF			296 [10.44]
	96000018	$56.00	Tube with clamp	PDF	–	Polyamide Tube Steel Clamp	175 [6.17]
	97584010	$28.00	Base with integrated tube	PDF	-20 to 50˚C [-4 to 122˚F]	Polyamide Glass-Reinforced	63 [2.22]
	97584090	$14.50	Plastic base for 25mm [0.98 in] diameter tube	PDF	-20 to 50˚C [-4 to 122˚F]	Polyamide Glass-Reinforced	40 [1.41]
	97584091	$22.50	Metal base for 25mm [0.98 in] diameter tube	PDF	-20 to 50˚C [-4 to 122˚F]	Anodized Aluminum	110 [3.88]
	96000031	$9.50	Plastic tube for foldaway base	PDF	-20 to 50˚C [-4 to 122˚F]	Polythylene	13 [0.46]

KS 71 Brackets & Contact Boxes Specifications

Brackets & Contact Boxes Technical Specifications							
Part Number		Price	Description	Drawing Link	Temp. Range	Material	Weight g [oz]
	97584001	$20.00	Contact box with side cable exit, with mounting material	PDF	-30 to 60˚C [-22 to 140˚F]	Polyamide	71 [2.50]
	97584004	$55.00	Contact box with magnetic base and side cable exit	PDF	-30 to 60˚C [-22 to 140˚F]	Polyamide	316 [11.15]
	97584085	$15.00	Bracket for 1-sided mounting, including rubber seals	PDF	-20 to 60˚C [-4 to 140˚F]	Polyamide	78 [2.75]
	97584086	$17.00	Bracket for 2-sided mounting, including rubber seals	PDF	-20 to 60˚C [-4 to 140˚F]	Polyamide	76 [2.68]
	96000001	$18.00	Bracket for base mounting with cable gland	PDF	-20 to 50˚C [-4 to 122˚F]	Polyamide	57 [2.01]
	96000002	$18.00	Bracket for surface mounting with cable gland	PDF	-20 to 50˚C [-4 to 122˚F]	Polyamide	40 [1.41]
	96000014	$22.00	Bracket for base mounting with concealed cable entry, including rubber seals	PDF	-20 to 50˚C [-4 to 122˚F]	Polyamide	80 [2.82]

Foldaway Base for KS 71 and KS 50

Features

- The signal tower can be folded away while still connected
- Minimizes packaging costs and optimizes machine transportation
- Simple mounting and cable entry – for up to 14 mm diameter cables
- Vertical alignment of signal towers even on sloping surfaces
- Positioning in 7.5° steps, markings for 30, 45, 60, or 90 degrees

Foldaway Base for KS 71 and KS 50				
Part Number	***Price***	***Drawing Link***	***Technical Specifications***	
96000030	$60.00	PDF	Material	Polyamide Glass Fiber-Reinforced
			Cable Diameter	Max. 14mm [0.55 in]
			Assembly	Includes rubber seals
			Fixing	Vertical or horizontal positioning
			Weight	165g [5.82 oz]

KS 71 Adapters Specifications

KS 71 Adapters Specifications					
Part Number	*Price*	*Drawing Link*	*Description*	*Temperature Range*	*Weight g [oz]*
96000004	$6.00	PDF	Cable gland for surface mounting	-20 to 50˚C [-4 to 122˚F]	10 [0.35]
96000025	$56.00	PDF	Adapter for single hole mounting	-20 to 50˚C [-4 to 122˚F]	165 [5.82]
97584002	$10.50	PDF	Adapter for tube mounting	-20 to 50˚C [-4 to 122˚F]	81 [2.86]

96000004

96000025

97584002

KS 71 Pre-assembled Stacklights

64924001 and 64924002

KombiSIGN 71 Pre-assembled Stacklights Features

- Available in common voltages of 24 VAC/VDC and 115VAC
- IP65
- LED Permanent Optical Elements
- 70mm diameter/base mount models
- Polycarbonate lens material
- Polyamide glass fiber-reinforced terminal element with cage clamp (part number 64080000)

64924003 and 64924004

KS 71 Pre-assembled Stacklights									
Part Number	Price	Drawing Link	Voltage	Colors	Current	Starting Current	Operating Temp	Life Duration	Weight g [oz]
64924001	$247.00	PDF	115VAC	Green, yellow, red	max. 20mA	–	-20 to 50˚C [-4 to 122˚F]	Up to 100,000h	249 [8.78]
64924002	$194.00	PDF	24 VAC/VDC		max. 25mA	max. 500mA			
64924003	$184.00	PDF	115VAC	Green, red	max. 20mA	–			191 [6.74]
64924004	$159.00	PDF	24 VAC/VDC		max. 25mA	max. 500mA			

Components for KS 71 Pre-assembled Stacklights				
Image				
Part Number	97584001	97584085	97584086	96000002
Price	$20.00	$15.00	$17.00	$18.00
Drawing Link	PDF	PDF	PDF	PDF
General Description	Contact box with side cable exit, with mounting material	Bracket for 1-sided mounting, including rubber seals	Bracket for 2-sided mounting, including rubber seals	Bracket for surface mounting with cable gland

Configuring Your Kombi*SIGN* 50 Stack Light

STEP 1
Select the required optical elements for your application

STEP 2
Select the optional audible element for your application

Optical Signal Elements
- Incandescent Permanent Light
- LED Permanent Light
- LED Blinking Light
- LED Flashing Light

Audible Signal Elements
- Buzzer Element

STEP 3
Select the terminal element for your mounting option (includes cap)

Terminal element for surface, tube, single hole and bracket mounting

Order no.
84500000

STEP 4
Select the appropriate mounting option and accessories

Base/Bracket Mounting

Bracket for wall mounting

Order no.
97584502

Base for surface mounting, includes rubber seal

Order no.
97584501

Tube Mounting

Tube Ø 25mm, all anodized

	Order no.
100 mm long	97584510
250 mm long	97584025
400 mm long	97584040
600 mm long	97584060
800 mm long	97584080
1000 mm long	97584003

Base for Tube, plastic
Order no. 97584090

Base for Tube, metal
Order no. 97584091

Foldaway Base
Order no. 96000030

STEP 5
Where appropriate, select the bracket and the contact box

Contact box with side cable exit
Order no. 97584001

Contact box with magnetic base and side cable exit
Order no. 97584004

Bracket for base mounting with concealed cable entry
Order no. 96000014

Bracket for base mounting
Order no. 96000001

KS 50 Elements Quick Selection Guide

STEP 1 - Optical Elements Quick Selection Guide

Type of Light	Part Number	Color	Operating Voltage	Price
Incandescent Permanent*	84610000	Red	12-240V AC/DC	$23.50
	84620000	Green		$23.50
	84630000	Yellow		$23.50
	84640000	Clear		$23.50
	84650000	Blue		$23.50
Bulbs	95584035	Clear	24VDC	$8.75
	95584038	Clear	230VAC	$8.75
	95584057	Clear	115VAC	$8.75
LED Permanent	84810055	Red	24V AC/DC	$76.00
	84820055	Green		$76.00
	84830055	Yellow		$76.00
	84840055	Clear		$116.00
	84850055	Blue		$116.00
	84810067	Red	115VAC	$88.00
	84820067	Green		$88.00
	84830067	Yellow		$88.00
	84840067	Clear		$116.00
	84850067	Blue		$129.00
LED Blinking Light	84811075	Red	24V AC/DC	$76.00
	84821075	Green		$76.00
	84831075	Yellow		$76.00
	84841075	Clear		$101.00
	84851075	Blue		$116.00
	84811067	Red	115VAC	$88.00
	84821067	Green		$88.00
	84831067	Yellow		$88.00
	84841067	Clear		$129.00
	84851067	Blue		$129.00
LED Flashing Light Element	84812055	Red	24VDC	$151.00
	84822055	Green		$175.00
	84832055	Yellow		$151.00
	84842055	Clear		$201.00
	84852055	Blue		$201.00

* Note: Bulbs are required for permanent incandescent optical element

STEP 2 - Audible Elements Quick Selection Guide

Part Number	Description	Voltage	Tone Frequency	Maximum Volume	Price
84900075	Buzzer element	24V AC/DC	2.1 kHz	80dB	$64.00
84900077		115V AC/DC			$67.00

STEP 3 - Terminal Element Quick Selection

Part Number	Description	Mounting	Price
84500000	Screw terminal element for KS 50	surface, tube, single-hole or bracket mount	$31.50

STEP 4 - Mounting Options/Accessories Quick Selection

Part Number	Description	Price
97584510	Anodized tube, 100mm [3.94 in] long	$13.50
97584025	Anodized tube, 250mm [9.84 in] long	$17.00
97584040	Anodized tube, 400mm [15.75 in] long	$22.50
97584060	Anodized tube, 600mm [23.62 in] long	$30.00
97584080	Anodized tube, 800mm [31.49 in] long	$38.50
97584003	Anodized tube, 1000mm [39.37 in] long	$52.00
97584090	Plastic base for 25mm [0.98 in] diameter tube	$14.50
97584091	Metal base for 25mm [0.98 in] diameter tube	$22.50
96000030	Foldaway base for 25mm [0.98 in] diameter tube	$60.00
97584501	Base for surface mounting, includes rubber seal	$16.50
97584502	Bracket for wall mounting	$23.50

STEP 5 - Contact Boxes & Brackets Quick Selection

Part Number	Description	Price
97584001	Contact box with side exit cable	$20.00
97584004	Contact box with magnetic base and side exit cable	$55.00
96000014	Bracket for base mounting with concealed cable entry	$22.00
96000001	Bracket for base mounting	$18.00

KS 50 LED Light Element

KS 50 Optical Elements Specifications

KS 50 Optical Elements Technical Specifications

Part Number	Color	Drawing Link	Description	Operating Voltage	Current Consumption	Starting Current	Operating Temp/ Protection	Life Duration	Flash Frequency	Housing Material	Weight g [oz]
84610000	Red	PDF	Incandescent Permanent Light	12-240V AC/DC (bulb sold separately)	Depends on bulb selection. (bulb sold separately)	–	-20 to 50˚C [-4 to 122˚F] IP54	up to 5,000h	–	Polycarbonate	40 [1.41]
84620000	Green	PDF									
84630000	Yellow	PDF									
84640000	Clear	PDF									
84650000	Blue	PDF									
84810055	Red	PDF	LED Permanent Light Element	24V AC/ DC	max. 45mA	max. 500mA	-20 to 50˚C [-4 to 122˚F] IP54	up to 100,000h	–	Polycarbonate	45 [1.59]
84820055	Green	PDF									
84830055	Yellow	PDF									
84840055	Clear	PDF									
84850055	Blue	PDF									
84810067	Red	PDF		115VAC	max. 25mA	–	-20 to 50˚C [-4 to 122˚F] IP54	up to 100,000h	–	Polycarbonate	45 [1.59]
84820067	Green	PDF									
84830067	Yellow	PDF									
84840067	Clear	PDF									
84850067	Blue	PDF									
84811075	Red	PDF	LED Blinking Light Element	24V AC/ DC	max. 25mA	max. 500mA	-20 to 50˚C [-4 to 122˚F] IP54	up to 100,000h	1Hz on for 550ms	Polycarbonate	45 [1.59]
84821075	Green	PDF									
84831075	Yellow	PDF									
84841075	Clear	PDF									
84851075	Blue	PDF									
84811067	Red	PDF		115VAC	max. 25mA	–	-20 to 50˚C [-4 to 122˚F] IP54	up to 100,000h	1Hz on for 550ms	Polycarbonate	45 [1.59]
84821067	Green	PDF									
84831067	Yellow	PDF									
84841067	Clear	PDF									
84851067	Blue	PDF									
84812055	Red	PDF	LED Flashing Light Element	24VDC	45mA	max. 500mA	-20 to 50˚C [-4 to 122˚F] IP54	up to 50,000h	1Hz on for 10ms	Polycarbonate	56 [1.98]
84822055	Green	PDF			40mA						
84832055	Yellow	PDF			45mA						
84842055	Clear	PDF			40mA						
84852055	Blue	PDF			40mA						

KS 50 Incandescent Permanent Light Element

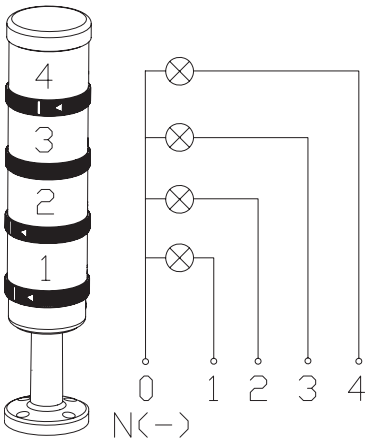
Bulbs for Incandescent Permanent Optical Element

Part Number	Description	Wattage	Voltage	Life Duration
95584035	Bulb for Incandescent Light BA15d Bayonet Socket	5W	24VDC	up to 5,000h
95584038			230VAC	
95584057			115VAC	

KS 50 Audible and Terminal Elements

KS 50 Audible Elements Specifications		
Part Number	***84900075***	***84900077***
Price	$64.00	$67.00
Drawing Link	PDF	PDF
Voltage	24V AC/DC	115V AC/DC
Current Consumption	max. 25mA	
Tone Frequency	2.1 kHz	
Maximum Volume	80dB	
Tone Type	Continuous/Pulse Tone Selectable	
Life Duration	min. 5,000h	
Duty Cycle	100%	
Operating Temperature	-4 to 122˚F [-20 to 50˚C]	
Weight	54g [1.90 oz]	
Housing Material	PC/ABS, PC blend (cap)	
Dome Material	PC/ABS, PC blend	

KS 50 Terminal Element Specifications	
Part Number	***84500000***
Price	$31.50
Drawing Link	PDF
Description	Terminal with screw connector
Mounting	Tube, bracket, base, and single hole mounting
Connection	max. 1.5 mm² - Single Wire
Operating Temperature	-4 to 122˚F [-20 to 50˚C]
Gauge	AWG18 to AWG14
Weight	93g [3.28 oz]
Cap Material	Polycarbonate
Base Material	Polyamide + PC/ABS



84900075 and 84900077 Switching from continuous to pulse tone.

KS 50 Mounting Hardware and Accessories

KS 50 Mounting Hardware and Accessories Specifications							
Part Number		*Price*	*Description*	*Drawing Link*	*Operating Temp.*	*Material*	*Weight g [oz]*
	97584510	$13.50	Tube, 100mm [3.94 in]	PDF	-20 to 50˚C [-4 to 122˚F]	Anodized aluminum	30 [1.06]
	97584025	$17.00	Tube, 250mm [9.84 in]	PDF			73 [2.57]
	97584040	$22.50	Tube, 400mm [15.75 in]	PDF			120 [4.23]
	97584060	$30.00	Tube, 600mm [23.62 in]	PDF			180 [6.35]
	97584080	$38.50	Tube, 800mm [31.49 in]	PDF			236 [8.32]
	97584003	$52.00	Tube, 1000mm [39.37 in]	PDF			296 [10.44]
	97584090	$14.50	Plastic base for 25mm [0.98 in] diameter tube	PDF	-20 to 50˚C [-4 to 122˚F]	Polyamide Glass Reinforced	40 [1.41]
	97584091	$22.50	Metal base for 25mm [0.98 in] diameter tube	PDF	-20 to 50˚C [-4 to 122˚F]	Anodized aluminum	110 [3.88]
	96000030	$60.00	Foldaway base for 25mm [0.98 in] diameter tube	PDF	–	Polyamide Glass Reinforced	165 [5.82]
	97584501	$16.50	Base for surface mounting, includes rubber seal	PDF	-20 to 60˚C [-4 to 140˚F]	Polyamide Glass Reinforced	35 [1.23]

KS 50 Contact Boxes and Brackets

Brackets & Contact Boxes Technical Specifications							
Part Number		Price	Description	Drawing Link	Temp. Range	Material	Weight g [oz]
	97584502	$23.50	Bracket for wall mounting	PDF	-20˚C to 60˚C [-4˚F to 140˚F]	Polyamide	30 [1.06]
	96000014	$22.00	Bracket for base mounting with concealed cable entry	PDF	-20˚C to 60˚C [-4˚F to 140˚F]	Polyamide	80 [2.82]
	96000001	$18.00	Bracket for base mounting	PDF	-20˚C to 50˚C [-4˚F to 122˚F]	Polyamide	57 [2.01]
	97584001	$20.00	Contact box with side cable exit	PDF	-20˚C to 60˚C [-4˚F to 140˚F]	Polyamide	71 [2.50]
	97584004	$55.00	Contact box with magnetic base and side cable exit	PDF	-20˚C to 60˚C [-4˚F to 140˚F]	Polyamide	316 [11.15]

WERMA LED Signal Towers eSIGN Series

Overview

The new eSIGN series signal towers bring new dimensions to light with a robust industrial design and powerful features, setting new standards for individuality and flexibility. Electronic modularity enables the product to operate in a variety of signal modes with various colors, brightness levels and light effects, from the classic signal tower to completely customized settings. The eSIGN signal towers can also switch with ease between variable filling level indications or full-surface signaling.

Features

- Full-surface signaling with clear and unmistakable light effects for maximum visibility
- Versatile customization options with different modes, light effects, and tones
- Selectable permanent, blinking, flashing, double flash, triple flash or rotating
- With or without siren
- 360-degree viewing angle
- Base mount with optional wall and tube mounts (purchase accessory separately)
- IO-Link v1.1 (see units indicated in selection table)

65701055 65760055

LED Signal Towers eSIGN Series Selection Table

Part Number	Price	Light Function	Number of Tiers	Voltage Rating	Rated Operational Current	Audible	Audible Tone Frequency Range	Connector Type	Weight g [oz]	Drawing Link
65700055	$407.00	Selectable permanent, blinking, flashing, double flash, triple flash or rotating	9	24VDC +/- 10%	335mA	No	No	8-pin M12 A-coded	568 [20.03]	PDF
65701055 *	$438.00			24 VDC +/- 20%				4-pin M12 A-coded (IO-Link)	565 [19.92]	PDF
65710055	$428.00			24VDC +/- 10%	405mA	10 selectable tones (multi-tone, 105dB at 1 meter)	0.9 to 3.6 kHz	8-pin M12 A-coded	569 [20.07]	PDF
65711055 *	$459.00			24 VDC +/- 20%				4-pin M12 A-coded (IO-Link)	570 [20.10]	PDF
65750055	$456.00	Selectable permanent, blinking, flashing, double flash, triple flash or rotating	15	24VDC +/- 10%	555mA	No	No	8-pin M12 A-coded	794 [28.00]	PDF
65751055 *	$488.00			24 VDC +/- 20%				4-pin M12 A-coded (IO-Link)	791 [27.90]	PDF
65760055	$472.00			24VDC +/- 10%	620mA	10 selectable tones (multi-tone, 105dB at 1 meter)	0.9 to 3.6 kHz	8-pin M12 A-coded	792 [27.93]	PDF
65761055 *	$513.00			24 VDC +/- 20%				4-pin M12 A-coded (IO-Link)	791 [27.90]	PDF

*Supports IO-Link v1.1

Each eSIGN tier can be programmed and actuated individually, thus enabling maximum customizing of signaling options.

Application examples:

- Access control
- Alerting
- Audible warning
- Building security
- Fault indication
- Filling level indication
- Material availability level
- Monitoring
- Operating status
- Process monitoring
- Status indication
- Visual warning

Free Configuration Software

System requirements:

- Windows 10x86/64
- USB port required for hardware configuration
- USB-C cable required - purchase separately - USB-CBL-AC6
- website: www.werma.com/software

WERMA LED Signal Towers eSIGN Series

Technical Specifications

LED Signal Towers eSIGN Series Technical Specifications		
Type	Non IO-Link models	IO-Link models
Mounting	Base, tube or wall mount	
Operating Temperature Range	-30 to 60°C [-22 to 140°F]	
Protection Degree	IP66 / IP69K	
UL Type Rating	Type 4 / 4X / 12 / 13	
Life Duration	max. 50,000h	
LED Indicator *(The status LED can be found inside the base behind the type label.)*	Flashes Yellow: normal LED pulses: firmware update is being installed LED is off - USB-C cable not properly connected	Red: The power supply is on; no IO-Link communication. Green: The power supply is on; IO-Link communication is working. - Yellow: Firmware-Update is running If no LED is active, please check the power supply
Protection Class	3	
Pollution Degree	3	
Housing Color	Black	
Housing Material	Polycarbonate	
Agency Approval *	cULus file E164155, CE, UKCA	

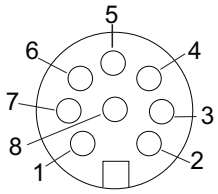
***To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.**

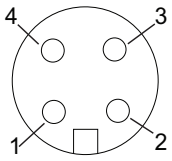
Wiring Diagrams

8-pin M12 A-coded		
M12 Pin Assignment	***Wire Color of M12 Cable***	***Function***
1	White	Signal 1
2	Brown	Signal 2
3	Green	Signal 3
4	Yellow	Signal 4
5	Gray	Signal 5
6	Pink	Signal 6
7	Blue	COM
8	Red	+24V

4-pin M12 A-coded (IO-Link)		
M12 Pin Assignment	***Wire Color of M12 Cable (IEC 60947-5-2)***	***Function***
1	Brown	L+
2	White	2L+
3	Blue	L-
4	Black	C/Q

Note: IO-Link Type/Class A: Some IO-Link masters with current consumption > 200mA need external auxiliary voltage (2L+).





Signal Towers eSIGN Series Accessories

96000064

96000065

Signal Tower eSIGN Series Accessories				
Part Number	***Price***	***Drawing Link***	***Description***	***Weight g [oz]***
96000064	$36.50	PDF	WERMA eSIGN series mounting tube with base, 70mm diameter, 110mm length, black, polyamide. For use with WERMA eSIGN signal towers.	38 [1.34]
96000065	$21.00	PDF	WERMA eSIGN series mounting bracket adapter, wall mount, black, polyamide. For use with WERMA eSIGN signal towers.	56 [1.97]

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

Signal Devices

PYRA Xenon Industrial Signal Beacons 109 x 86 x 80mm PY X-S-05 Series

Overview

The PYRA PY X-S-05 series Industrial Signal Beacons use the Pfannenberg Xenon flash technology. They offer 5 joules of flash energy, 50cd light intensity, and 164m [538ft] max viewing distance. The PYRA PY-XS-05 series is suitable for flush-mounting and housings can be easily mounted side-by-side.

Features

- Simple electrical connection on the bottom of the casing
- Impact-resistant lens
- High intensity Xenon tube
- Modular design housings can be easily mounted side-by-side
- Installation options with external lugs or internal holes for flush-mounting
- 10-year warranty

21510156055

10 YEAR WARRANTY

CE cULus

PYRA Xenon Industrial Signal Beacons 109 x 86 x 80mm PY X-S-05 Series

Part Number	Price	Operator Color	Light Color	Voltage Operating Range	Nominal Current Consumption	Bulb Type	Light Function	Weight	Life Duration	Drawing Link
21510151000	$178.00	Clear	Clear/White	115VAC 92-127 VAC 50/60 Hz	100mA	Xenon tube	Flashing Strobe (1Hz flash frequency)	165g [5.82 oz]	Light emission still 70% after 8,000,000 flashes	PDF
21510154055	$178.00	Amber	Amber							PDF
21510155055	$178.00	Red	Red							PDF
21510156055	$178.00	Green	Green							PDF
21510157055	$178.00	Blue	Blue							PDF
21510801000	$178.00	Clear	Clear/White	24VDC	300mA			200g [7.05 oz]		PDF
21510804055	$178.00	Amber	Amber							PDF
21510805055	$178.00	Red	Red							PDF
21510806055	$178.00	Green	Green							PDF
21510807055	$178.00	Blue	Blue							PDF

PYRA Xenon Industrial Signal Beacons 109 x 86 x 80mm PY X-S-05 Series Specifications

Flash Rate	1Hz (60 flashes/min)
Flash Energy	5J
Light Intensity (DIN 5037 with clear lens)	50cd
Maximum Viewing Distance	164m [538ft]
Operating Temperature	-40 to 55°C [-40 to 131°F]
Storage Temperature	-40 to 70°C [-40 to 158°F]
Relative Humidity	90% max.
Degree Of Protection (EN 60529)	IP66, NEMA 4/4X
Protection Class	II (double insulated equipment)
Duty Cycle	100%
Housing Material	Polycarbonate (PC)/ Acrylonitrile Butadiene Styrene (ABS) Blend
Lens Material	Polycarbonate (PC)
Cable Entry	3 x M20 knockouts prepared (sideways), 1 knockout on back
Integrated Seal With Cable Entry	6–13mm (feed-through grommet)
Connecting Terminal	0.14–2.5mm² fine wire, 24-14AWG (stranded)
Agency Approvals	CE, cULus File E189090

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

Signal Devices

PYRA Xenon Industrial Signal Beacons 166 x 114 x 134mm PY X-M-10 Series

Overview

The PYRA PY X-M-10 series Industrial Signal Beacons use the Pfannenberg Xenon flash technology. They offer 10 joules of flash energy, 149cd light intensity, and 283m [928 ft] max viewing distance. The PYRA PY X-M-10 series offers four different flash rates set via DIP switch.

Features

- Installation options with external lugs or internal holes
- Choice of four different flash rates via DIP switch
- Integrated inrush current limitation and undervoltage detection (option)
- Full synchronization on multi-flashing light systems
- High intensity Xenon tube
- Fast and easy surface-mount design
- 10-year warranty

21551154055

10 YEAR WARRANTY

CE cULus

PYRA Xenon Industrial Signal Beacons 166 x 114 x 134mm PY X-M-10 Series										
Part Number	*Price*	*Operator Color*	*Light Color*	*Voltage Operating Range*	*Nominal Current Consumption*	*Bulb Type*	*Light Function*	*Weight*	*Life Duration*	*Drawing Link*
21551151000	$247.00	Clear	Clear/White	115VAC 50/60Hz	240mA @ 1Hz	Xenon tube	Selectable Flashing Strobe 1 Hz (60 flashes/min) 0.75 Hz (45 flashes/min) 0.5 Hz (30 flashes/min) 0.1 Hz (6 flashes/min)	440g [15.52 oz]	Light emission still 70% after 8,000,000 flashes	PDF
21551154055	$247.00	Amber	Amber							PDF
21551155055	$247.00	Red	Red							PDF
21551156055	$247.00	Green	Green							PDF
21551157055	$247.00	Blue	Blue							PDF
21551811000	$274.00	Clear	Clear/White	24VDC 10–57 VDC	540mA @ 24VDC 1Hz					PDF
21551814055	$274.00	Amber	Amber							PDF
21551815055	$274.00	Red	Red							PDF
21551816055	$274.00	Green	Green							PDF
21551817055	$274.00	Blue	Blue							PDF

PYRA Xenon Industrial Signal Beacons 166 x 114 x 134mm PY X-M-10 Series Specifications	
Flash Rate	0.1 Hz / 0.5 Hz / 0.75 Hz / 1Hz (DIP switch)
Flash Energy	10J
Light Intensity (DIN 5037 with clear lens)	149cd
Maximum Viewing Distance	283m [928 ft]
Operating Temperature	-40 to 55°C [-40 to 131°F]
Storage Temperature	-40 to 70°C [-40 to 158°F]
Relative Humidity	90% max.
Degree Of Protection (EN 60529)	IP66, NEMA 4/4X
Protection Class	II (double insulated equipment)
Duty Cycle	100%
Housing Material	Polycarbonate (PC)/ Acrylonitrile Butadiene Styrene (ABS) Blend
Lens Material	Polycarbonate (PC)
Cable Entry	2 x M20 sideways, 2 x M20 bottom side
Integrated Seal With Cable Entry	7–13mm with the use of cable diameters <7mm, a cable screw joint with sufficient ingress protection must be provided
Connecting Terminal	0.14–2.5mm² fine wire, 24-14 AWG (stranded)
Agency Approvals	CE, UL File E189090

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

Signal Devices

PYRA Xenon Industrial Signal Beacons 212 x 144 x 157mm PY X-L-15 Series

Overview

The PYRA PY X-L-15 series Industrial Signal Beacons use the Pfannenberg Xenon flash technology. They offer 15 joules of flash energy, 190cd light intensity, and 320m [1049ft] max viewing distance. The PYRA PY-X-L-15 series offers selectable flash frequency (6-60 flashes per minute).

Features

- Large visual 3D-coverage area, more than double the output 10J flashing light
- Selectable flash frequency and synchronized flash
- Fast and easy surface-mount design
- High intensity Xenon tube
- 10-year warranty

21561151000

10 YEAR WARRANTY

CE cULus

PYRA Xenon Industrial Beacons 212 x 144 x 157mm PY X-L-15 Series										
Part Number	*Price*	*Operator Color*	*Light Color*	*Voltage Operating Range*	*Nominal Current Consumption*	*Bulb Type*	*Light Function*	*Weight*	*Life Duration*	*Drawing Link*
21561151000	$299.00	Clear	Clear/White	115VAC 50/60 Hz	300mA @ 1Hz	Xenon tube	Selectable Flashing Strobe 1Hz (60 flashes/min) 75Hz (45 flashes/min) 0.5 Hz (30 flashes/min) 0.1 Hz (6 flashes/min)	690g [1.52 lb]	Light emission still 70% after 8,000,000 flashes	PDF
21561154055	$299.00	Amber	Amber							PDF
21561155055	$299.00	Red	Red							PDF
21561156055	$299.00	Green	Green							PDF
21561157055	$299.00	Blue	Blue							PDF
21561801000	$299.00	Clear	Clear/White	24VDC (+/- 20%)	540mA @ 1Hz					PDF
21561804055	$299.00	Amber	Amber							PDF
21561805055	$299.00	Red	Red							PDF
21561806055	$299.00	Green	Green							PDF
21561807055	$299.00	Blue	Blue							PDF

PYRA Xenon Industrial Beacons 212 x 144 x 157mm PY X-L-15 Series Specifications	
Flash Rate	0.1 Hz / 0.5 Hz / 0.75 Hz / 1Hz
Flash Energy	15J
Light Intensity (DIN 5037 with clear lens)	190cd
Maximum Viewing Distance	320m [1049ft]
Operating Temperature	-40 to 55°C [-40 to 131°F]
Storage Temperature	-40 to 70°C [-40 to 158°F]
Relative Humidity	90% max.
Degree Of Protection (EN 60529)	IP66, NEMA 4/4X
Protection Class	II (double insulated equipment)
Duty Cycle	100%
Housing Material	Polycarbonate (PC)/ Acrylonitrile Butadiene Styrene (ABS) Blend
Lens Material	Polycarbonate (PC)
Cable Entry	4 x M20 (prepared)
Integrated Seal With Cable Entry	7–13mm with the use of cable diameters <7mm, a cable screw joint with sufficient ingress protection must be provided
Connecting Terminal	0.14–2.5mm² fine wire, 24-14 AWG (stranded)
Agency Approvals	CE, cULus File E189090

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

Signal Devices

PYRA LED Industrial Signal Beacons 166 x 114 x 124mm PY L-M Series

Overview

The PYRA PY L-M series Industrial Signal Beacons are designed for optical signaling of conditions in industry, trade, and construction areas. The LEDs can be operated in different modes; permanent, blinking, or flashing via an internal switch. They offer 23cd light intensity, and 111m [364ft] max viewing distance.

Features

- RGB multi color LED light with wide signaling area and maximum visibility
- Selectable signaling modes – permanent, blinking, or flashing
- Multiple system status can be indicated using one device
- Selectable blink and flash frequencies
- Flush-mount installation is fully integrable into the design of your machine and equipment
- 10-year warranty

21553648055

10 YEAR WARRANTY

CE cULus

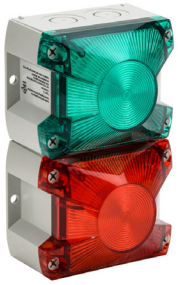
PYRA LED Industrial Signal Beacons 166 x 114 x 124mm PY L-M Series										
Part Number	***Price***	***Operator Color***	***Light Color***	***Voltage Operating Range***	***Max. Current Consumption***	***Bulb Type***	***Light Function***	***Weight***	***Life Duration***	***Drawing Link***
21553648055	$308.00	Clear	Red/Yellow/ Green/Blue	115–230 VAC 50/60 Hz	36mA @ 230VAC	LED	Selectable permanent, blinking, flashing	400g [14.10 oz]	≥50,000 hrs	PDF
21553818055	$308.00			12–48 VDC	120mA @ 24VDC					PDF

PYRA LED Industrial Signal Beacons 166 x 114 x 124mm PY L-M Series Specifications	
Light Alternation Frequency	Blinking: 1Hz / 2Hz Flashing: 0.1 Hz / 0.5 Hz / 0.75 Hz / 1Hz / 2Hz
Light Intensity (DIN 5037 with clear lens)	23cd (reducible)
Maximum Viewing Distance	111m [364ft]
Operating Temperature	-40 to 55°C [-40 to 131°F]
Storage Temperature	-40 to 70°C [-40 to 158°F]
Relative Humidity	90% max.
Installation Position	Any position
Degree Of Protection (EN 60529)	IP66, NEMA 4/4X
Protection Class	II (double insulated equipment)
Housing Material	Polycarbonate (PC)/ Acrylonitrile Butadiene Styrene (ABS) Blend
Lens Material	Polycarbonate (PC)
Cable Entry	4 x M20 pre-embossed
Connecting Terminal	0.14–2.5mm² fine wire, 24-14AWG (stranded)
Agency Approvals	CE, cULus File E189090

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

Signal Devices

PYRA LED Traffic Lights PY L-S-TL Series



21514642055

21514813055

Overview

The PYRA PY L-S-TL series LED Traffic Lights are designed for the signaling of hazardous conditions in industry, trade, and construction areas and are available in 2 or 3 tier models.

The LED in the light section can be operated in different modes, each can be activated by an internal switch, permanent/ blinking/flashing (selectable blink/flash frequency).

Features

- The pre-wired base can accommodate several lights
- Selectable signaling modes: permanent, blinking, and flashing
- Selectable blink & flash frequencies
- Fast and easy surface-mount design
- 10-year warranty

PYRA LED Traffic Lights PY L-S-TL Series

Part Number	Price	Voltage Operating Range	Current Consumption	Bulb Type	Number Of Tiers	Light Function	Light Colors	Body Color	Weight	Drawing Link
21514642055	$331.00	115-230 VAC 50/60 Hz	51mA @ 115VAC 36mA @ 230VAC	LED	2	Permanent/ blinking/flashing (selectable blink/ flash frequency)	Red/Green	Light gray	265g [9.34 oz] per light / max.	PDF
21514643055	$445.00				3		Red/Yellow/Green			PDF
21514812055	$331.00	12-48 VDC	275mA @ 12VDC 65mA @ 24VDC		2		Red/Green			PDF
21514813055	$445.00				3		Red/Yellow/Green			PDF

PYRA LED Traffic Lights PY L-S-TL Series Specifications

Light Intensity	76cd (reducible) per single unit
Maximum Viewing Distance	202m [662 ft]
Operating Temperature	-40 to 55°C [-40 to 131°F]
Storage Temperature	-40 to 70°C [-40 to 158°F]
Installation Position	Any position
Degree Of Protection	IP66 (EN 60529), Type 4 & 4X, IK08 (EN 50102)
Protection Class	II (double insulated equipment)
Housing Material	Polycarbonate (PC)/ Acrylonitrile Butadiene Styrene (ABS) Blend
Lens Material	Polycarbonate (PC)
Cable Entry	4-stage: 8 x M20 pre-embossed 2 and 3-stage: 6 x M20 pre-embossed
Connecting Terminals	0.14 - 2.5 mm² fine stranded, 24-14AWG
Humidity	90% max
Agency Approval	CE, cULus File E189090

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

Signal Devices

PRYA Xenon Audible-Visual Signal Beacons 166 x 114 x 134mm PY X-MA-10 Series

Overview

The PYRA PY-X-MA-10 series Audible-Visual Beacons are designed for the signaling of hazardous conditions in industry, trade, and construction areas. The devices offer eight selectable tones and a choice of four different flash rates via a DIP switch.

Features

- Choice of four different flash rates via DIP switch
- Integrated inrush current limitation and undervoltage detection.
- Full synchronization of multi-flashing light systems.
- Light and sounder can be controlled separately
- High intensity Xenon tube
- Short assembly and installation times using external lugs or internal holes for surface-mount
- 10-year warranty

21555157055

10 YEAR WARRANTY

CE cULus

PYRA Xenon Audible-Visual Signal Beacons 166 x 114 x 134mm PY X-MA-10 Series												
Part Number	*Price*	*Operator Color*	*Light Color*	*Voltage Operating Range*	*Nominal Current Consumption*[1]	*Tone Type*	*Tone Frequency*	*Loudness Decibels*	*Bulb Type*	*Light Function*	*Weight*	*Drawing Link*
21555154055	$337.00	Amber	Amber	115VAC 50/60 Hz	250-270mA	(8) selectable	110Hz 3kHz	101dB at 1m	Xenon tube	Selectable flashing strobe	660g [1.45 lb]	PDF
21555155055	$337.00	Red	Red									PDF
21555156055	$337.00	Green	Green									PDF
21555157055	$337.00	Blue	Blue									PDF
21555814055	$337.00	Amber	Amber	24VDC 10–57 VDC	540mA @ 24VDC						580g [1.27 lb]	PDF
21555815055	$337.00	Red	Red									PDF
21555816055	$337.00	Green	Green									PDF
21555817055	$337.00	Blue	Blue									PDF

[1] Power consumption dependent on operating voltage.

PYRA Xenon Audible-Visual Signal Beacons 166 x 114 x 134mm PY X-MA-10 Series Specifications	
Sound Level Reduction	Maximum –20 dB via potentiometer
Flash Energy And Flash Rate	10J @ 0.1 Hz | 0.5 Hz | 0.75 Hz | 1Hz
Light Intensity (DIN 5037 with clear lens)	149cd
Operating Temperature	-40 to 55°C [-40 to 131°F]
Storage Temperature	-40 to 70°C [-40 to 158°F]
Relative Humidity	90%
Degree Of Protection (EN 60529)	IP66
Protection Class	II (double insulated equipment)
Service Life Of The Light Source	Light emission still 70% after 8,000,000 flashes
Housing Material	Polycarbonate (PC)/ Acrylonitrile Butadiene Styrene (ABS) Blend
Lens Material	Polycarbonate (PC)
Cable Entry	2 x M20 on side, 1 x M20 on bottom
Integrated Seal With Cable Entry	6–13 mm
Connecting Terminal	2.5 mm^2 fine wire, 16AWG
Agency Approvals	CE, cULus File S7256

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

Signal Devices

PYRA LED Audible-Visual Signal Beacons 166 x 114 x 134mm PY L-MA-RGB Series

Overview

The PYRA PY L-MA-RGB Audible-Visual Signal Beacon series is designed for the optical signaling of hazardous conditions in industry, trade, and construction areas.

The LEDs in the light section can be operated in different modes, all of which can be activated by an internal switch. The multicolor versions allow different colors to be assigned to the individual operating modes and feature the option of selecting alternative operating modes and colors via external control. Optional acoustic signaling when the lights are used in combination with the integrated sounder.

Features

- Choice of four different flash rates via DIP switch
- On-board current regulation to stabilize load fluctuation
- Integrated inrush current limitation and undervoltage detection
- Full synchronization of multi-flashing light systems
- Light and sounder can be controlled separately
- Short assembly and installation times using external lugs or internal holes for surface-mount
- 10-year warranty

21556818055

10 YEAR WARRANTY

CE cULus

PYRA LED Audible-Visual Signal Beacons 166 x 114 x 134mm PY L-MA-RGB Series												
Part Number	***Price***	***Operator Color***	***Light Color***	***Voltage Operating Range***	***Current Consumption***	***Tone Type***	***Tone Frequency***	***Loudness Decibels***	***Bulb Type***	***Light Function***	***Weight***	***Drawing Link***
21556648055	$360.00	Clear	Red/ Yellow/ Green/ Blue	115–230 VAC 50/60 Hz	Light 36mA @ 230VAC Sound 10mA @ 230VAC	(8) selectable	110Hz 3kHz	101dB at 1m	LED	Selectable permanent, blinking or flashing	620g [1.36 lb]	PDF
21556818055	$360.00			12–48 VDC	Light 120mA @ 24VDC Sound 15mA @ 24VDC							PDF

PYRA LED Audible-Visual Signal Beacons 166 x 114 x 134mm PY L-MA-RGB Series Specifications	
Sound Level Reduction	Maximum –20dB via potentiometer
Light Alternation Frequency	Blinking light 1 Hz / 2 Hz Flashing light 0.1 Hz / 0.5 Hz / 0.75 Hz / 1Hz / 2Hz
Light Intensity (DIN 5037 with clear lens)	23cd (reducible)
Maximum Viewing Distance	111m [364ft]
Operating Temperature	-40 to 55°C [-40 to 131°F]
Storage Temperature	-40 to 70°C [-40 to 158°F]
Installation Position	Any position
Degree Of Protection (EN 60529)	IP66, NEMA 4/4X
Protection Class	II (double insulated equipment)
Service Life Of The Light Source	≥50,000 hrs
Housing Material	Polycarbonate (PC)/ Acrylonitrile Butadiene Styrene (ABS) Blend
Lens Material	Polycarbonate (PC)
Cable Entry	3 x M20 pre-embossed
Connecting Terminal	0.14 - 2.5 mm^2 fine wire stranded, 24-14 AWG (stranded)
Agency Approvals	CE, cULus File S7256

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

Signal Devices

PYRA Xenon Audible-Visual Signal Beacons 216 x 144 x 172mm PY X-LA-15 Series

Overview

The PYRA PY X-LA-15 Audible-Visual Signal Beacons series generates visual signals with four different adjustable flashing frequencies. Powerful flashing light sounder combination with 15J in an extremely robust enclosure for any outdoor and indoor application with IP66 protection. Audio and visual signals can be controlled separately.

Features

- A 103db sounder is integrated into a visual signal. Audio and visual signals can be controlled separately
- Large visual 3D-coverage area, doubling the 10 Joules flashing light output
- 8 tones are selectable and sound level is reducible by –25dB for adaption to any industry and environment
- Surface-mount design for quick and easy installation
- High intensity Xenon tube
- 10-year warranty

21565155055

10 YEAR WARRANTY

CE cULus

PYRA Xenon Audible-Visual Signal Beacons 216 x 144 x 172mm PY X-LA-15 Series												
Part Number	*Price*	*Operator Color*	*Light Color*	*Voltage Operating Range*	*Nominal Current Consumption*[1]	*Tone Type*	*Tone Frequency*	*Loudness Decibels*	*Bulb Type*	*Light Function*	*Weight*	*Drawing Link*
21565154055	$425.00	Amber	Amber	115VAC 50/60 Hz	Light 300mA @ 1Hz Sound 15mA @ 1Hz	(8) selectable	110Hz 3kHz	103dB at 1m	Xenon tube	Selectable flashing strobe	900g [1.52 lb]	PDF
21565155055	$425.00	Red	Red									PDF
21565156055	$425.00	Green	Green									PDF
21565157055	$425.00	Blue	Blue									PDF
21565804055	$425.00	Amber	Amber	24VDC	Light 540mA @ 1Hz Sound 20mA @ 1Hz						870g [1.91 lb]	PDF
21565805055	$425.00	Red	Red									PDF
21565806055	$425.00	Green	Green									PDF
21565807055	$425.00	Blue	Blue									PDF

[1] Power consumption dependent on operating voltage.

PYRA Xenon Audible-Visual Signal Beacons 216 x 144 x 172mm PY X-LA-15 Series Specifications	
Sound Level Reduction	Maximum –25 dB via potentiometer
Flash Energy And Flash Rate	15J @ 0.1 Hz / 0.5 Hz / 0.75 Hz / 1Hz
Light Intensity (DIN 5037 with clear lens)	190cd
Max. Viewing Distance	320m [1050ft]
Operating Temperature	-40 to 55°C [-40 to 131°F]
Storage Temperature	-40 to 70°C [-40 to 158°F]
Relative Humidity	90%
Degree Of Protection (EN 60529)	IP66, NEMA 4/4X
Protection Class	II (double insulated equipment)
Housing Material	Polycarbonate (PC)/ Acrylonitrile Butadiene Styrene (ABS) Blend
Lens Material	Polycarbonate (PC)
Cable Entry	4 x M20 (prepared)
Integrated Seal With Cable Entry	7–13mm with the use of cable diameters <7mm, a cable screw joint with sufficient ingress protection must be provided
Connecting Terminal	0.14–2.5mm² fine wire, 24-14AWG (stranded)
Agency Approvals	CE, cULus File S7256

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

Signal Devices

PATROL Xenon Audible-Visual Signal Beacons 109 x 81 x 172mm PA X 1-05 Series

23311156055

Overview

The PATROL PA X 1-05 series of Audible-Visual Signal Beacons reaches a 105dB nominal sound pressure level with 5 Joules flash and offers 80 selectable alarm tones. Up to 4 different tones can be configured in one device and used as alarm levels.

Features

- Highly efficient with good penetration of acoustical obstacles, these features reduce the required number of sounders
- Pre-wired sounder and light
- Corresponding light intensity available for every sound pressure level
- Surface-mount or flush-mount design for quick and easy installation
- High intensity Xenon tube
- 10-year warranty

PATROL Xenon Audible-Visual Signal Beacons 109 x 81 x 172mm PA X 1-05 Series

Part Number	Price	Operator Color	Light Color	Voltage Operating Range	Nominal Current Consumption[1]	Tone Type	Tone Frequency	Loudness Decibels	Bulb Type	Light Function	Weight	Drawing Link
23311154055	$346.00	Amber	Amber	115VAC	110–130 mA	(80) selectable	150Hz 2.9 kHz	105dB at 1m	Xenon tube	Flashing Strobe (1Hz flash frequency)	725g [1.59 lb]	PDF
23311155055	$346.00	Red	Red									PDF
23311156055	$346.00	Green	Green									PDF
23311157055	$346.00	Blue	Blue									PDF
23311804055	$334.00	Amber	Amber	24VDC	315–365 mA @ 24VDC						800g [1.76 lb]	PDF
23311805055	$334.00	Red	Red									PDF
23311806055	$334.00	Green	Green									PDF
23311807055	$334.00	Blue	Blue									PDF

[1] Power consumption dependent on operating voltage.

PATROL Xenon Audible-Visual Signal Beacons 109 x 81 x 172mm PA X 1-05 Series Specifications

Sound Level Reduction	Maximum –12 dB via potentiometer
Alarm Tones	80 / Up to 4 tones are externally selectable
Flash Energy And Flash Rate	AC models: 5J @ 1Hz (60 flashes/min) DC models: 10J @ 1Hz (60 flashes/min)
Light Intensity (DIN 5037 with clear lens)	AC models: 50cd DC models: 149CD
Operating Temperature	-40 to 55°C [-40 to 131°F]
Storage Temperature	-40 to 70°C [-40 to 158°F]
Relative Humidity	90%
Degree Of Protection	IP66, NEMA 4/4X
Protection Class	II (double insulated equipment)
Service Life Of The Light Source	Light emission still 70% after 8,000,000 flashes
Housing Material	Polycarbonate (PC)/ Acrylonitrile Butadiene Styrene (ABS) Blend
Lens Material	Polycarbonate (PC)
Cable Entry	3 x M20 knockouts on side, 1 knockout on back
Integrated Seal With Cable Entry	6–13 mm (feed-through grommet)
Connecting Terminals	2.5 mm^2 fine wire with cable end sleeve, 16AWG
Agency Approval	CE, cULus File S7256

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

Signal Devices

PATROL Xenon Audible-Visual Signal Beacons 163 x 132 x 215mm PA X 5-05 Series

23351804055

Overview

Pfannenberg Audible-Visual Signal Beacons PATROL PA X 5-05 series reaches a 107dB nominal sound pressure level with 5 Joules flash and offers 80 selectable alarm tones. Up to 4 different tones can be configured in one device and used as alarm levels.

Features

- High efficiency and good penetration of acoustical obstacles significantly reduce the required number of sounders
- Pre-wired sounder and light
- Corresponding light intensity available for every sound pressure level
- Surface-mount or flush-mount design for quick and easy installation
- High intensity Xenon tube
- 10-year warranty

PATROL Xenon Audible-Visual Signal Beacons 163 x 132 x 215mm PA X 5-05 Series

Part Number	Price	Operator Color	Light Color	Voltage Operating Range	Nominal Current Consumption [1]	Tone Type	Tone Frequency	Loudness Decibels	Bulb Type	Light Function	Weight	Drawing Link
23351154055	$436.00	Amber	Amber	115VAC 50/60 Hz	5J 110–130mA 10J 250–260mA	(80) selectable	150Hz 2.9 kHz	107db @ 1m107dB at 1m	Xenon tube	Flashing Strobe (1Hz flash frequency]	725g [1.59 lb]	PDF
23351155055	$436.00	Red	Red									PDF
23351156055	$436.00	Green	Green									PDF
23351157055	$436.00	Blue	Blue									PDF
23351804055	$436.00	Amber	Amber	24VDC	5J 315–365mA 10J 565–620mA						983g [2.17 lb]	PDF
23351805055	$436.00	Red	Red									PDF
23351806055	$436.00	Green	Green									PDF
23351807055	$436.00	Blue	Blue									PDF

[1] Power consumption dependent on operating voltage.

PATROL Xenon Audible-Visual Signal Beacons 163 x 132 x 215mm PA X 5-05 Series Specifications

Sound Level Reduction	Maximum –12 dB via potentiometer
Alarm Tones	80 / Up to 4 tones are externally selectable
Flash Energy And Flash Rate	AC models: 5J @ 1Hz (60 flashes/min) DC models: 10J @ 1Hz (60 flashes/min)
Light Intensity (DIN 5037 with clear lens)	AC models: 50cd DC models: 149CD
Operating Temperature	-40 to 55°C [-40 to 131°F]
Storage Temperature	-40 to 70°C [-40 to 158°F]
Relative Humidity	90%
Degree Of Protection	IP66, NEMA 4/4X
Protection Class	II (double insulated equipment)
Service Life Of The Light Source	Light emission still 70% after 8,000,000 flashes
Housing Material	Polycarbonate (PC)/ Acrylonitrile Butadiene Styrene (ABS) Blend
Lens Material	Polycarbonate (PC)
Cable Entry	3 x M20 knockouts on side, 1 knockout on back
Integrated Seal With Cable Entry	6–13 mm (feed-through grommet)
Connecting Terminals	2.5 mm^2 fine wire with cable end sleeve, 16AWG
Agency Approval	CE, cULus File S7256

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

Signal Devices

PATROL LED Audible-Visual Signal Beacons 163 x 132 x 215mm PA L 5 Series

23353158055

Overview

Pfannenberg Audible-Visual Signal Beacons PATROL PA L 5 series reaches a 107dB nominal sound pressure level with 5 Joules flash and offers 80 selectable alarm tones. Up to 4 different tones can be configured in one device and used as alarm levels.

Features

- 80 selectable tones
- Up to 4 different tones can be configured in one device and used as alarm levels
- Selectable signaling modes: permanent, blinking or flashing
- Surface-mount or flush-mount design for quick and easy installation
- 10-year warranty

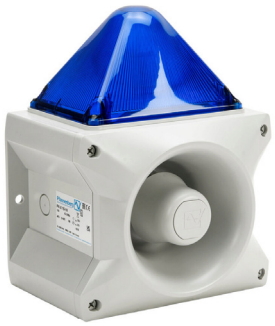
PATROL LED Audible-Visual Signal Beacons 163 x 132 x 215mm PA L 5 Series												
Part Number	***Price***	***Operator Color***	***Light Color***	***Voltage Operating Range***	***Nominal Current Consumption***	***Tone Type***	***Tone Frequency***	***Loudness Decibels***	***Bulb Type***	***Light Function***	***Weight***	***Drawing Link***
23353108055	$436.00	Clear	Red/ Yellow/ Green/ Blue	230VAC 50/60 Hz	Light 36mA Sound 16mA	(80) selectable	150Hz 2.9 kHz	107dB at 1m	LED	Selectable permanent, blinking or flashing	980g [2.16 lb]	PDF
23353158055	$436.00			115VAC 50/60 Hz	Light 51mA Sound 30mA							PDF
23353638055	$436.00			12–48 VDC	Light 120mA Sound 70mA						800g [1.76 lb]	PDF

PATROL LED Audible-Visual Signal Beacons 163 x 132 x 215mm PA L 5 Series Specifications	
Sound Level Reduction	Maximum –12dB via potentiometer
Alarm Tones	80 / Up to 4 tones are externally selectable
Light Alternation Frequency	Blinking light 1Hz / 2Hz | Flashing light 0.1 Hz / 0.5 Hz / 0.75 Hz / 1Hz /2 Hz
Light Source	Single color: two high output LED / RGB: one high output LED
Light Intensity (DIN 5037 with clear lens)	AC models: 50cd DC models: 149CD
Maximum Viewing Distance	111m [364ft]
Operating Temperature	-40 to 55°C [-40 to 131°F]
Storage Temperature	-40 to 70°C [-40 to 158°F]
Relative Humidity	90%
Mounting	Any position
Degree Of Protection	IP66, NEMA 4/4X
Protection Class	II (double insulated equipment)
Service Life Of The Light Source	≥50,000 hrs
Housing Material	Polycarbonate (PC)/ Acrylonitrile Butadiene Styrene (ABS) Blend
Lens Material	Polycarbonate (PC)
Cable Entry	4 x M20 pre-embossed
Integrated Seal With Cable Entry	6–13 mm (feed-through grommet)
Connecting Terminals	0.14 - 2.5 mm² fine stranded, 24-14AWG
Agency Approval	CE, cULus File S7256

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

Signal Devices

PATROL Xenon Audible-Visual Signal Beacons 214 x 156 x 270mm PA X 10-10 Series



23361157055

Overview

Pfannenberg Xenon Audible-Visual Signal Beacons PATROL PA X 10-10 series produces acoustic signals in 80 different tones, which can be selected using an internal switch. The external control can be used to switch over to a maximum of 3 additional tones.

Features

- High efficiency and good penetration of acoustical obstacles significantly reduce the required number of sounders
- Pre-wired sounder and light
- Corresponding light intensity available for every sound pressure level
- Surface-mount design for quick and easy installation
- High intensity Xenon tube
- 10-year warranty

PATROL Xenon Audible-Visual Signal Beacons 214 x 156 x 270mm PA X 10-10 Series												
Part Number	Price	Operator Color	Light Color	Voltage Operating Range	Nominal Current Consumption[1]	Tone Type	Tone Frequency	Loudness Decibels	Bulb Type	Light Function	Weight	Drawing Link
23361154055	$630.00	Amber	Amber	115VAC 50/60 Hz	300–450mA	(80) selectable	150Hz 2.9 kHz	117dB at 1m	Xenon tube	Flashing Strobe (1Hz flash frequency)	2133g [4.70 lb]	PDF
23361155055	$630.00	Red	Red									PDF
23361156055	$630.00	Green	Green									PDF
23361157055	$630.00	Blue	Blue									PDF
23361804055	$630.00	Amber	Amber	24VDC	680–1040mA						2056g [4.53 lb]	PDF
23361805055	$630.00	Red	Red									PDF
23361806055	$630.00	Green	Green									PDF
23361807055	$630.00	Blue	Blue									PDF

[1] Power consumption dependent on operating voltage.

PATROL Xenon Audible-Visual Signal Beacons 214 x 156 x 270mm PA X 10-10 Series Specifications	
Sound Level Reduction	Maximum –12 dB via potentiometer
Alarm Tones	80 / Up to 4 tones are externally selectable
Flash Energy	10J
Flash Rate	1Hz (60 flashes/min)
Light Intensity (DIN 5037 with clear lens)	129cd
Operating Temperature	-40 to 55°C [-40 to 131°F]
Storage Temperature	-40 to 70°C [-40 to 158°F]
Relative Humidity	90%
Degree Of Protection	IP66, NEMA 4/4X
Protection Class	II (double insulated equipment)
Service Life Of The Light Source	Light emission still 70% after 8,000,000 flashes
Housing Material	Polycarbonate (PC)/ Acrylonitrile Butadiene Styrene (ABS) Blend
Lens Material	Polycarbonate (PC)
Cable Entry	4 x M20 knockouts prepared (on side), 1 knockout on back
Integrated Seal With Cable Entry	6–13 mm (feed-through grommet)
Connecting Terminals	2.5 mm^2 fine wire with cable end sleeve, 16AWG
Agency Approval	CE, cULus File S7256

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

Signal Devices

PATROL Xenon Audible-Visual Signal Beacons 214 x 181 x 270mm PA X 20-15 Series

23372155055

Overview

Pfannenberg Xenon Audible-Visual Signal Beacons PATROL PA X 20-15 series produces acoustic signals in 80 different alarm tones. Up to 4 different tones can be configured in one device and used as alarm levels.

Features

- High efficiency and good penetration of acoustical obstacles significantly reduce the required number of sounders
- Pre-wired sounder and light
- Corresponding light intensity available for every sound pressure level
- Surface-mount design for quick and easy installation
- High intensity Xenon tube
- 10-year warranty

PATROL Xenon Audible-Visual Signal Beacons 214 x 181 x 270mm PA X 20-15 Series												
Part Number	*Price*	*Operator Color*	*Light Color*	*Voltage Operating Range*	*Nominal Current Consumption*[1]	*Tone Type*	*Tone Frequency*	*Loudness Decibels*	*Bulb Type*	*Light Function*	*Weight*	*Drawing Link*
23372154055	$1,013.00	Amber	Amber	115VAC 50/60 Hz	330–660mA	(80) selectable	150Hz 2.9 kHz	122dB at 1m	Xenon tube	Flashing Strobe (1Hz flash frequency)	2298g [5.06 lb]	PDF
23372155055	$1,013.00	Red	Red									PDF
23372156055	$1,013.00	Green	Green									PDF
23372157055	$1,013.00	Blue	Blue									PDF
23372804055	$1,013.00	Amber	Amber	24VDC	850–1650mA						2221g [4.89 lb]	PDF
23372805055	$1,013.00	Red	Red									PDF
23372806055	$1,013.00	Green	Green									PDF
23372807055	$1,013.00	Blue	Blue									PDF

[1] Power consumption dependent on operating voltage.

PATROL Xenon Audible-Visual Signal Beacons 214 x 181 x 270mm PA X 20-15 Series Specifications	
Sound Level Reduction	Maximum –12dB via potentiometer
Alarm Tones	80 / Up to 4 tones are externally selectable
Flash Energy	15J
Flash Rate	1 Hz (60 flashes/min)
Light Intensity (DIN 5037 with clear lens)	190cd
Max. Viewing Distance	111m [364.17 ft]
Operating Temperature	-40 to 55°C [-40 to 131°F]
Storage Temperature	-40 to 70°C [-40 to 158°F]
Relative Humidity	90%
Degree Of Protection	IP66, NEMA 4/4X
Protection Class	II (double insulated equipment)
Service Life Of The Light Source	Light emission still 70% after 8,000,000 flashes
Housing Material	Polycarbonate (PC)/ Acrylonitrile Butadiene Styrene (ABS) Blend
Lens Material	Polycarbonate (PC)
Cable Entry	4 x M20 knockouts prepared (on side), 1 knockout on back
Integrated Seal With Cable Entry	6–13 mm (feed-through grommet)
Connecting Terminals	2.5 mm^2 fine wire with cable end sleeve, 16AWG
Agency Approval	CE, cULus File S7256

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

Signal Devices

PATROL Audible-Signal Horns PA 1/PA 5 Series

Overview

Pfannenberg Audible-Signal Horns PATROL PA 1/PA 5 series meets the requirements of IP rating protection and impact-proof housing. In addition, the base connection terminals, nondetachable seals and quick-locking elements greatly facilitate easy mounting.

Features

- 80 selectable pre-programmed tones
- Up to 4 different tones can be configured in one device and used as alarm levels
- Superior sound penetration and coverage
- Operates in harsh environments
- Surface-mount or flush-mount design for quick and easy installation
- 10-year warranty

23310150055

PATROL Audible-Signal Horns PA 1/PA 5 Series									
Part Number	*Price*	*Operator Color*	*Voltage Operating Range*	*Nominal Current Consumption*[1]	*Tone Type*	*Tone Frequency*	*Loudness Decibels*	*Weight*	*Drawing Link*
23310150055	$170.00	Gray	115VAC 50/60 Hz	8–30mA	(80) selectable	150Hz 2.9 kHz	101dB at 1m	405g [14.28 oz]	PDF
23310150900	$170.00	Gray					105dB at 1m		PDF
23310630055	$158.00	Gray	10–57 VDC	6–80mA				270g [9.52 oz]	PDF
23310630101 *	$177.00	Gray							PDF
23310630900	$158.00	Gray							PDF
23350150055	$261.00	Gray	115VAC 50/60 Hz	8–30mA			107dB at 1m	778g [1.71 lb]	PDF
23350630055	$261.00	Gray	10–57 VDC	6–80mA				643g [1.41 lb]	PDF

*** Requires a 4-pin female M12 cable, purchase separately.**
[1] Power consumption dependent on operating voltage.

PATROL Audible-Signal Horns PA 1/PA 5 Series Specifications	
Sound Level Reduction	Max. –12dB via potentiometer
Alarm Tones	80 / Up to 4 tones are externally selectable
Operating Temperature	-40 to 55°C [-40 to 131°F]
Storage Temperature	-40 to 70°C [-40 to 158°F]
Relative Humidity	90%
Degree Of Protection	IP66, NEMA 4/4X
Protection Class	II (double insulated equipment)
Duty Cycle	100%
Housing Material	Polycarbonate (PC)/ Acrylonitrile Butadiene Styrene (ABS) Blend
Cable Entry	2331xxxxxxx series: 3 x M20 knockouts on side, 1 knockout on back 2335xxxxxxx series 5 x M20 knockouts on side, 1 knockout on back
Integrated Seal With Cable Entry	6–13 mm (feed-through grommet)
Connecting Terminals	2.5 mm^2 fine wire with cable end sleeve, 16AWG
Agency Approval	CE, cULus File S7256

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

Signal Devices

PATROL Audible-Signal Horns PA 10/PA 20 Series

23360630055

23370640000

Overview

Pfannenberg Audible-Signal Horns PATROL PA 10/PA 20 series meets the requirements of IP rating protection and impact-proof housing. In addition, the base connection terminals, nondetachable seals and quick-locking elements greatly facilitate easy mounting.

Features

- 80 selectable pre-programmed tones
- Up to 4 different tones can be configured in one device and used as alarm levels
- Superior sound penetration and coverage
- Operates in harsh environments
- Surface-mount or flush-mount design for quick and easy installation
- 10-year warranty

PATROL Audible-Signal Horns PA 10/PA 20 Series									
Part Number	*Price*	*Operator Color*	*Voltage Operating Range*	*Nominal Current Consumption*[1]	*Tone Type*	*Tone Frequency*	*Loudness Decibels*	*Weight*	*Drawing Link*
23360630055	$447.00	Gray	10–60 VDC	60–485mA	(80) selectable	150Hz 2.9 kHz	117dB at 1m	1050g [2.31 lb]	PDF
23360640055	$447.00	Gray	95–265 VAC 50/60 Hz	20–115mA				1060g [2.33 lb]	PDF
23370630000	$662.00	Red	10–60 VDC	120–880mA			122dB at 1m	1090g [2.40 lb]	PDF
23370630055	$662.00	Gray							PDF
23370640000	$662.00	Red	95–265 VAC 50/60 Hz	75–330mA				1200g [2.64 lb]	PDF
23370640055	$662.00	Gray							PDF

[1] Power consumption dependent on operating voltage.

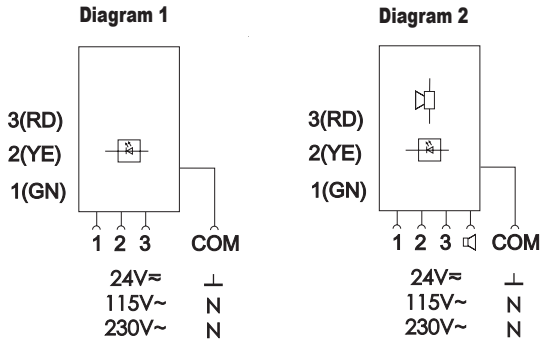
PATROL Audible-Signal Horns PA 10/PA 20 Series Specifications	
Sound Level Reduction	Maximum –12dB via potentiometer
Alarm Tones	80 / Up to 4 tones are externally selectable
Operating Temperature	-40 to 55°C [-40 to 131°F]
Storage Temperature	-40 to 70°C [-40 to 158°F]
Relative Humidity	90%
Degree Of Protection	IP66, NEMA 4/4X
Protection Class	II (double insulated equipment)
Duty Cycle	100%
Housing Material	Polycarbonate (PC)/ Acrylonitrile Butadiene Styrene (ABS) Blend
Cable Entry	5 x M20 knockouts on side, 1 knockout on back
Integrated Seal With Cable Entry	6–13 mm (feed-through grommet)
Connecting Terminals	2.5 mm^2 fine wire with cable end sleeve, 16AWG
Agency Approval	CE, cULus File S7256

FlatSIGN Signal Lights

WERMA FlatSIGN 691 Series Features

- Industrial signal light
- Red/Yellow/Green LEDs
- Permanent or blinking (DIP switch selectable)
- 160-degree viewing angle
- Wall mount installation
- Audible alert option with 8 DIP switch-selectable tones (DC models) or continuous (AC models)
- 2-year warranty

FlatSIGN 691 Series Technical Specifications

Part Number	Price	Drawing Link	Description	Voltage	Housing Color	Current	Operating Temp /Protection	Life Duration	Housing Material	Weight g [oz]	Wiring Diagram	Connection	Agency Approval
Base Mount													
69110055	$155.00	PDF	Permanent or blinking LED	24V AC/DC	Transparent	30mA per tier	-30 to 50°C (-22 to 122°F) IP65 when mounted	max. 50,000h	PC transparent or coated cap/ PC/ABS blend housing	230 [8.11]	Diagram 1	Membrane grommet Cable diameter max. 13mm Terminal screw 0.5 -1.5 mm²	UL file E164155, CE, RoHS
69130055	$222.00	PDF			Silver								
69110068	$155.00	PDF		115-230 VAC	Transparent								
69130068	$222.00	PDF			Silver								
69120055	$188.00	PDF	Permanent or blinking LED Audible alert (8 selectable tones, 80dB at 1 meter	24V AC/DC	Transparent					235 [8.29]	Diagram 2		
69140055	$262.00	PDF			Silver								
69120068	$188.00	PDF	Permanent or blinking LED Audible alert (continuous tone, 80dB at 1 meter)	115-230 VAC	Transparent								
69140068	$262.00	PDF			Silver								

Wiring Diagrams