

**AUTOMAX**

*devices for the automation industry*



#morethanbrightideas

**SIRENA**



# AUTOMAX

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# AUTOMAX

## SIGNALING FOR THE AUTOMATION INDUSTRY



Since many years, **AUTOMAX** represents a point of reference for signaling devices engineered for industrial automation applications. With **ELYPS**, **TWS** and **LUXOR**, Sirena offers a complete range of products able to satisfy the most critical conditions.

Furthermore, a continuous R+D development, allows to deliver new modules and products, completing the range and upgrading the line to the latest quality and performance standards. With **AUTOMAX**, Sirena guarantees a range of products engineered around your needs.

Since 1974 we engineer, develop and manufacture the best industrial signaling devices on the market. With a 40 years experience and R+D + manufacturing facilities located in Italy, our knowhow and heritage is the added value that we offer in every single product we create.

**AUTOMAX** *by Sirena*

**The right choice.**



The diagram below compares the shape, size, light intensity and available technologies of the three ranges.

	<b>ELYPS</b>	<b>TWS</b>	<b>LUXOR</b>
			
SHAPE	Elliptic 	Cylindric 	Cylindric 
DIMENSIONS	70X50mm	∅ 70mm	∅ 136mm
		∅ 50mm ∅ 36mm ∅ 25mm ∅ 18mm	∅ 90mm
LIGHT INTENSITY	 <b>ELYPS LM</b>	<b>TWS STY/FLA</b>	
	  <b>ELYPS LM S</b> <b>ELYPS LM S MULTI</b>	<b>TWS LED</b> <b>TWS LED MULTI</b>	<b>LUXOR LED</b>
	   <b>ELYPS LM X MULTI</b>	<b>TWS S</b> <b>TWS RGA</b> <b>TWS X</b>	
TECHNOLOGIES	LED	LED, XENON, INCANDESCENCE	LED, XENON, INCANDESCENCE

# AUTOMAX

## MACHINE DIRECTIVE



**Sirena signaling devices are suitable for visual and acoustic signaling on machinery in conformity with the European Machine Directive 2006/42/EC (29/12/2009).**

**T**he 2006/42/EC Machine Directive refers to regulations that cover risk analysis in the design and construction process of machinery.

The directive requires manufacturers to make a detailed analysis regarding the safety of machinery and systems. Data relating to safety of machinery components must also be included at the project stage.

It must be specified that not all devices installed are directly involved in terms of safety of machinery and its applications. It is also necessary to distinguish between relevant and not relevant applications for the purpose of safety. For this reason, the visual and acoustic signaling devices used in numerous informative applications are to be considered not relevant for the purpose of safety. A signal can, for example, simply inform a person if a process is in progress or has been completed; often used to detect downtime and increase productivity.

Sirena's signaling devices comply with the Machinery Directive. They respect all the regulations relating to colors and safety signals and can be used by machine builders.

# MODULES' COLOR

## IEC 60073

### DANGER

DANGEROUS SITUATION, REQUIRES IMMEDIATE ACTION

*(example: pressure/temperature outwith safety standards)*

### MANDATORY

SITUATIONS THAT REQUIRE MANDATORY ACTION

*(example: critical data input necessary to proceed)*

### NORMAL

NORMAL SITUATION

*(example: authorization to proceed/machinery in function)*

### ANOMALY


ANOMALY SITUATION, REQUIRES MONITORING AND/OR ACTION


*(example: conveyor belt blocked, intervention required to correct the abnormal situation)*

### ASSIGNED

TO BE USED TO COMMUNICATE A MESSAGE DIFFERENT TO THAT FORESEEN BY THE STANDARD COLORS, REQUIRES MONITORING

*(example: machine in function)*

 The most critical situations are installed at the top part of the stacklight

 The less critical situations are installed at the bottom part of the stacklight

# AUTOMAX

**S**irena's priority is to offer customers with a customized product tailored for the final application rather than offering a standard product that is often a compromise to what is actually needed. **ELYPS** and **TWS** stacklights have been engineered specifically to meet the end-user requirements: for this reason Sirena has developed 3 types of lenses engineered for specific applications according to the surrounding environment.

## allCOLOR

The allCOLOR lens has been developed for Standard applications where the brightness of the color is the main priority. The light output of the colored lens is intensified by using the same color light source (color-on-color technology). This process allows optimization of the emission frequencies avoiding the filter effect of the lens. The color is, therefore, more vivid than a standard stacklight guaranteeing compliance with the Machine Directive specifications.



### > STANDARD USE

Colored lens with colored light source.

The use of a colored lens with the same color of light source allows optimization of the emission frequency producing a rich intense light output.



### > USE IN VERY BRIGHT ENVIRONMENTS

Clear lens with colored light source.

In very bright environments, it is possible that the ambience brightness lights up the module when it is switched OFF creating problems in distinguishing between the ON and OFF state of the stacklight (phantom effect). The clear lens module allows clear distinction between the ON and OFF status of the stacklight.

## allCLEAR

The allCLEAR lens has been developed for use in bright environments where the main priority is to give a precise signal regarding machine status to the operator. In very bright environments, the ambience light can cause confusion as to the ON/OFF state of the colored module: this condition is known as "phantom effect". The allCLEAR lens, with colored light LED source eliminates this possibility. When the module is switched OFF the lens is white/neutral and when it is switched ON the lens lights up according to the color of LEDs inside the module.

## PROXIMITY

The Proximity lens has been developed for use in areas where the stacklight is installed near the operator. Made with a mixture of opaline polycarbonate, this lens allows a signal to be given without dazzling. The operator located in the vicinity of the tower is, therefore, notified of the status of the machine without his attention being diverted by a light intensity greater than that actually required.



### > USE NEAR THE OPERATOR

Opaline colored lens with colored light source.

Ideal when the tower is installed near the operator. The opaline characteristic allows an optimal signaling function yet without disturbing.

all COLOR

TWS S

all CLEAR

ELYPS LM X

TWS LED

FAR

ELYPS LM S

BRIGHT

STANDARD

STANDARD

AMBIENCE BRIGHTNESS

NEAR

TWS LED  
ELYPS LM  
PROXIMITY



DISTANCE BETWEEN OPERATOR AND STACKLIGHT

# RANGE E LLY P S







# ELYPS

## INTRODUCTION

**S**irena has a very simple mission: to create innovative and high-quality visual and acoustic signaling devices.

At Sirena, we're used to indicating the path to follow, we're aware of our duties as well as our responsibilities. Our job matches our vocation: defining the standards of the signaling industry.

When we decided to engineer a new range of stacklights, we did not settle down with a simple redesign of the market standards but instead we've taken the challenge to revolutionize the concept at its very roots.

We thought about a stacklight with an innovative shape, aesthetically revolutionary, capable of satisfying the most common dimensional standards. We thought about patented optics capable of performing at 360 degrees. We thought about state-of-the-art electronics capable of satisfying your needs. We thought about three different configuration philosophies capable of increasing the added value of the stacklight. We thought about five unique mounting bases capable of solving the most challenging installation issues. But, more than everything else, we thought about You.

We've done all this because our job is to make sure your job becomes as easy and efficient as possible. Because we understand how important it is to put You in the condition to create added value. Because we know how much You trust us and because we're flattered you've be doing so for the past 40 years.



The **ELYPS** modular stacklight range is made of four groups of modules: mounting bases, wiring modules, light modules and acoustic modules.

MB Mounting Bases are engineered for a versatile stacklight installation, allowing the devices to be installed always in the ideal position.

WM Wiring Modules allow to choose voltages as well as the configuration philosophy, giving the possibility to create low or high tension devices, with steady or flashing light and with the possibility to control the flashing pattern (i.e. via PLC) directly from the base of the stacklight.

LM Light Modules have been engineered to satisfy all possible needs. Different levels of light intensity as well as different lenses technology (allCOLOR, allCLEAR, Proximity) and different flashing patterns, offer a unique and complete range.

AM Acoustic Modules are based on two technologies: piezoelectric and magnetodynamic. Both versions allow the use of two separate channels giving the possibility of utilizing the stacklight with two different sounds, according to the type of message one needs to deliver.

The IP65 protection grade makes **ELYPS** ideal also for outdoor applications.

ELYPS is available in three color options: **allGRAY** (industrial RAL 7035), **allBLACK** (industrial/commercial RAL 9005) and **allWHITE** (civil/commercial RAL 9003).

## **ELYPS** *by Sirena*

**Everybody  
loves beauty**



## 3 CONFIGURATION

**E**LYPS modular stacklight allows three different configuration philosophies according to the final application.

Depending on the need to have one or more flashing modules, it is possible to choose whether to generate the flashing pattern directly via a PLC (using a steady light stacklight) or whether to use the preset flashing patterns of each module, easing PLC programming and management operations. Furthermore, it is possible to change the status of each module from steady to flashing even without the use of a PLC, by using a flashing wiring module (WM MULTI) and controlling the status of each module via a single independent electrical contact on the wiring module itself (BLINK channel).

### ○ STEADY LIGHT STACKLIGHT

The steady light stacklight consists of one wiring module WM LT or HT and up to six steady light modules LM or LM S, according to the light intensity required.

Each light module can be controlled directly via electrical contacts or via PLC

### □ FLASHING LIGHT STACKLIGHT

The flashing light stacklight consists of one wiring module WM LT or HT and up to six flashing light modules LM S MULTI or LM X MULTI (4 preset flashing patterns selectable via dip-switch), according to the light intensity required.

Each light module can be controlled directly via electrical contacts or via PLC. The flashing pattern will be the one selected on each module

### △ STACKLIGHT WITH FLASHING CONTROLS IN THE BASE

The stacklight with flashing controls in the base consists of one wiring module with flashing options WM LT MULTI or HT MULTI (4 preset flashing patterns selectable via dip-switch) and by up to six steady light modules LM or LM S, according to the light intensity required.

For each light module it is possible to change the status from steady to flashing by controlling the electrical contacts and the BLINK channel (flashing) on the base directly or via PLC

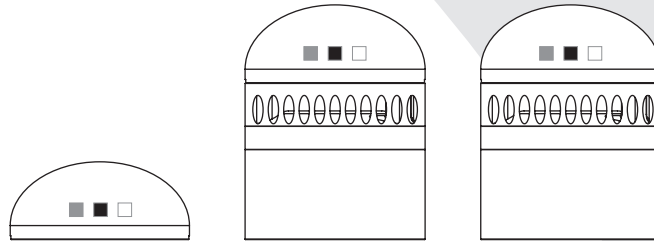
For each configuration philosophy it is possible to add an acoustic module AM or AM S.

The use of a mounting base MB is mandatory.



# PHILOSOPHIES

## AM ACOUSTIC MODULE

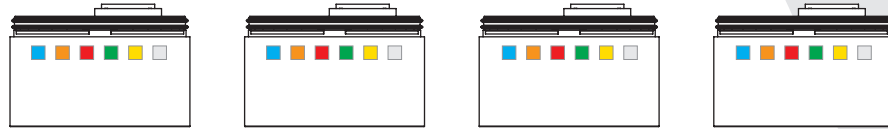


○□△  
Top cap for closure when the acoustic module is not installed (supplied with each WM module)

○□△  
**AM**  
Piezoelectric acoustic module

○□△  
**AM S**  
Magnetodynamic acoustic module

## LM LIGHT MODULE



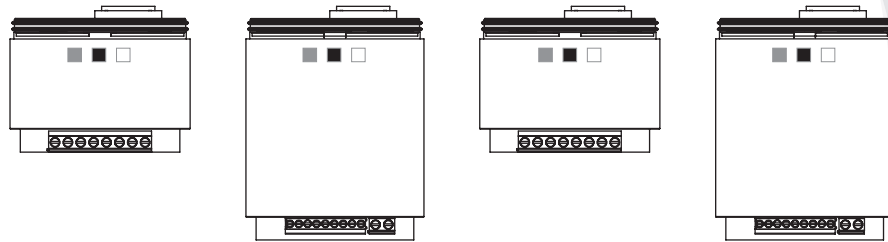
○△  
**LM**  
LED steady light module

○△  
**LM S**  
Bright LED steady light module

□  
**LM S MULTI**  
Bright LED multifunctional light module (4 light effects)

□  
**LM X MULTI**  
Superbright LED multifunctional light module (4 light effects)

## WM WIRING MODULE



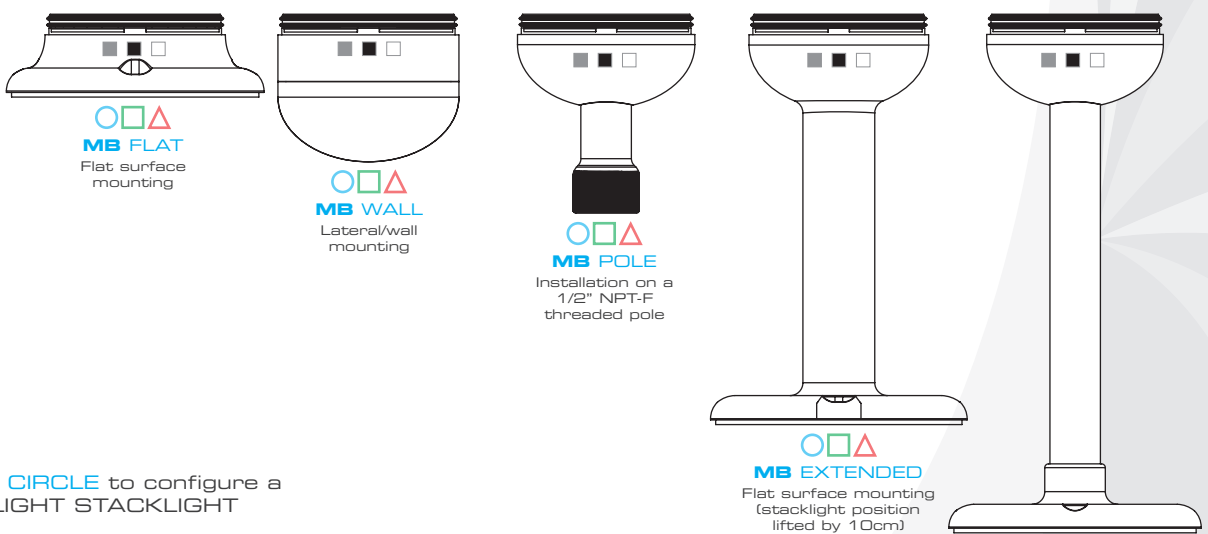
○□  
**WM LT**  
Wiring module 12/24V ACDC

○□  
**WM HT**  
Wiring module 120/240V AC

△  
**WM LT MULTI**  
Multifunctional wiring module 12/24V ACDC (4 light effects)

△  
**WM HT MULTI**  
Multifunctional wiring module 120/240V AC (4 light effects)

## MB MOUNTING BASE



○□△  
**MB FLAT**  
Flat surface mounting

○□△  
**MB WALL**  
Lateral/wall mounting

○□△  
**MB POLE**  
Installation on a 1/2" NPT-F threaded pole

○□△  
**MB EXTENDED**  
Flat surface mounting (stacklight position lifted by 10cm)

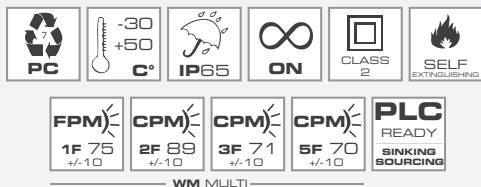
○□△  
**MB TUBE**  
Flat surface mounting with Stainless Steel extension tube (lengths available 10, 20, 30, 40cm)

- Follow the **CIRCLE** to configure a **STEADY LIGHT STACKLIGHT**
- Follow the **SQUARE** to configure a **FLASHING LIGHT STACKLIGHT**
- △ Follow the **TRIANGLE** to configure a **STACKLIGHT WITH FLASHING CONTROLS IN THE BASE**



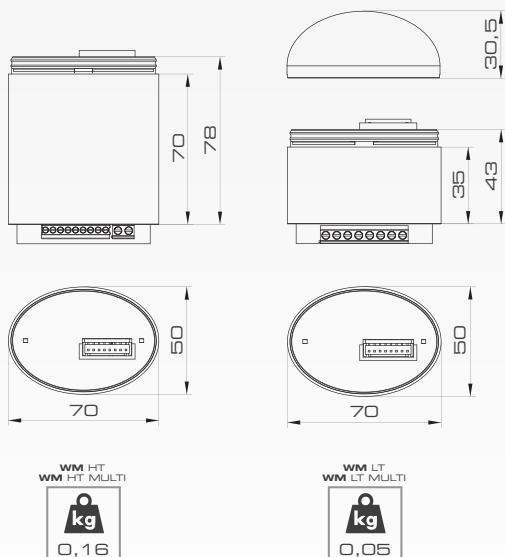
WM HT

WM LT



WM MULTI

## DRAWINGS, DIMENSIONS AND WEIGHTS



## ELYPS WM | PART NO

		■	■	□
ELYPS WM LT	12/24V ACDC	32317	32318	32319
ELYPS WM HT	120/240V AC	32320	32321	32322
ELYPS WM LT MULTI	12/24V ACDC	32323	32324	32325
ELYPS WM HT MULTI	120/240V AC	32326	32327	32328

## ELYPS WM WIRING MODULE

### ELYPS WM

Wiring module for the ELYPS stacklight range. With 7 electrical contacts, it allows assembly of maximum 7 modules: 6 light modules + 1 acoustic module (1 channel) or 5 light modules + 1 acoustic module (2 channels).

### ELYPS WM MULTI

With the same main characteristics of the WM module, WM MULTI allows the possibility of generating a flashing sequence in any of the installed modules via the activation of a dedicated BLINK channel.

Enriched by 4 light effects: single flash, double flash, triple flash and stroboscopic.

The BLINK channel can be triggered independently for each module, allowing the change from steady to flashing light also during the normal operations of the stacklight. The BLINK channel activation can be done directly as well as via PLC.

A top cap for closure of the stacklight when an acoustic module is not installed, is provided with each WM module.

## KEY CHARACTERISTICS

### LIGHT EFFECTS

WM LT MULTI and HT MULTI:  
1x FLASH | 2x FLASH | 3x FLASH | 5x FLASH  
Selectable via dip-switch

### VOLTAGES

WM LT and WM LT MULTI: 12/24V ACDC  
WM HT and WM HT MULTI: 120/240V AC

### PROTECTION GRADE

IP65, suitable for outdoor applications

### OPERATING TEMPERATURE

-30/+50 C°

### MECHANICAL FEATURES

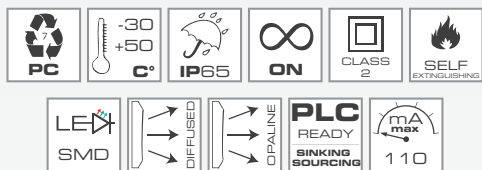
Self extinguishing PC body with high impact resistance, suitable for outdoor use thanks to the IP65 protection grade

## CERTIFICATIONS

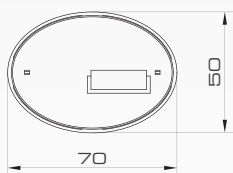




> **LOW CONSUMPTION** <  
> **RESISTANCE TO VIBRATIONS** <



## DRAWINGS, DIMENSIONS AND WEIGHTS



## ELYPS LM | PART NO

	all <b>COLOR</b>	all <b>CLEAR</b>	PRO <b>XIMITY</b>
■	32331	32341	32411
■	32332	32342	32412
■	32333	32343	32413
■	32334	32344	32414
■	32335	32345	32415
■	32336	32346	32416

## ELYPS LM LIGHT MODULE

Integrated LED steady light module.

With its clear colors and simple functionality, ELYPS LM is the right choice for an entry-level stacklight module.

ELYPS LM offers versatility and good optical performance as well as virtually zero maintenance thanks to the built-in LED technology that guarantees up to 100.000\* hours of product life.

Available with all**COLOR**, all**CLEAR** and Proximity lens, ELYPS LM is the right choice for an efficient stacklight module.

\*At normal conditions, without vibrations and heavy temperature changes

## KEY CHARACTERISTICS

**LIGHT EFFECTS**  
STEADY

**VOLTAGES**  
According to selected Wiring Module (WM)  
With **WM LT** and **WM LT MULTI**: 24V ACDC  
With **WM HT** and **WM HT MULTI**: 120/240V AC

**PROTECTION GRADE**  
IP65, suitable for outdoor applications

**OPERATING TEMPERATURE**  
-30/+50 C°

## MECHANICAL FEATURES

Self extinguishing PC body with high impact resistance, suitable for outdoor use thanks to the IP65 protection grade

## OPTICAL FEATURES

6x LEDs (3 per side). The vertically lined lens allows a perfect light distribution over 360°. Available with 3 different lens types, according to the final application

**all**COLOR** STANDARD USE**  
Colored lens with colored light source. The use of a colored lens with the same-color light source allows optimization of the emission frequency producing a rich intense light output

**all**CLEAR** USE IN VERY BRIGHT ENVIRONMENTS**  
Clear lens with colored light source. In very bright environments it is possible that the ambient brightness lights up the module when it is switched OFF creating problems in distinguishing between the ON and OFF state of the stacklight (phantom effect). The clear lens module allows clear distinction between the ON and OFF status of the stacklight



**PRO**XIMITY** USE NEAR THE OPERATOR**  
Opaline colored lens with colored light source. Ideal when the tower is installed near the operator. The opaline characteristic allows an optimally diffused light that avoids disturbing the operator



## CERTIFICATIONS



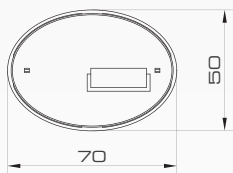
PENDING



- > HIGH BRIGHTNESS <
- > LOW CONSUMPTION <
- > RESISTANCE TO VIBRATIONS <



## DRAWINGS, DIMENSIONS AND WEIGHTS



## ELYPS LM S | PART NO

	allCOLOR	allCLEAR
	32371	32381
	32372	32382
	32373	32383
	32374	32384
	32375	32385
	32376	32386

## ELYPS LM S LIGHT MODULE

Integrated bright LED steady light module.

With its clear colors and simple functionality, ELYPS LM S is the right choice for a high performance stacklight module.

ELYPS LM S offers versatility and good optical performance as well as virtually zero maintenance thanks to the built-in LED technology that guarantees up to 100.000\* hours of product life.

Available with allCOLOR and allCLEAR lens.

ELYPS LM S is the right choice for a high performance stacklight module.

\*At normal conditions, without vibrations and heavy temperature changes

## KEY CHARACTERISTICS

### LIGHT EFFECTS

STEADY

### VOLTAGES

According to selected Wiring Module (WM)  
 With WM LT and WM LT MULTI: 12/24V ACDC  
 With WM HT and WM HT MULTI: 120/240V AC

### PROTECTION GRADE

IP65, suitable for outdoor applications

### OPERATING TEMPERATURE

-30/+50 C°

## MECHANICAL FEATURES

Self extinguishing PC body with high impact resistance, suitable for outdoor use thanks to the IP65 protection grade

## OPTICAL FEATURES

6x Bright LEDs (3 per side). The vertically lined lens allows a perfect light distribution over 360°. Available with 2 different lens types, according to the final application

### allCOLOR STANDARD USE

Colored lens with colored light source. The use of a colored lens with the same-color light source allows optimization of the emission frequency producing a rich intense light output

### allCLEAR USE IN VERY BRIGHT ENVIRONMENTS

Clear lens with colored light source. In very bright environments it is possible that the ambient brightness lights up the module when it is switched OFF creating problems in distinguishing between the ON and OFF state of the stacklight (phantom effect). The clear lens module allows clear distinction between the ON and OFF status of the stacklight



## CERTIFICATIONS



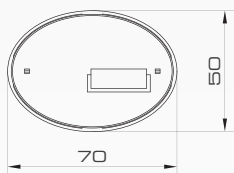


- > MULTIFUNCTION <
- > HIGH BRIGHTNESS <
- > LOW CONSUMPTION <
- > RESISTANCE TO VIBRATIONS <



PC	-30 +50 C°	IP65	ON	CLASS 2	SELF EXTINGUISHING
LED	SMD	DIFFUSED	CPM) 2F 46 ±1.10	CPM) 3F 71 ±1.10	CPM) 5F 72 ±1.10
					RANDOM <b>new</b>
		PLC READY SINKING SOURCING	mA max 100		

## DRAWINGS, DIMENSIONS AND WEIGHTS



## ELYPS LM S MULTI | PART NO

	allCOLOR	allCLEAR
	32391	32401
	32392	32402
	32393	32403
	32394	32404
	32395	32405
	32396	32406

## ELYPS LM S MULTI LIGHT MODULE

Integrated bright LED multifunctional light module.

Enriched by 4 light effects: double flash, triple flash, stroboscopic and random. The random effect consists in an uneven flashing pattern, augmenting the ability of catching attention.

ELYPS LM S MULTI offers versatility and good optical performance as well as virtually zero maintenance thanks to the built-in LED technology that guarantees up to 100.000\* hours of product life.

Available with allCOLOR and allCLEAR lens, ELYPS LM S MULTI is the right choice for a high performance multifunctional stacklight module.

\*At normal conditions, without vibrations and heavy temperature changes

## KEY CHARACTERISTICS

### LIGHT EFFECTS

2x FLASH | 3x FLASH | 5x FLASH | RANDOM  
Selectable via dip-switch

### VOLTAGES

According to selected Wiring Module (WM)  
With WM LT and WM LT MULTI: 12/24V ACDC  
With WM HT and WM HT MULTI: 120/240V AC

### PROTECTION GRADE

IP65, suitable for outdoor applications

### OPERATING TEMPERATURE

-30/+50 C°

## MECHANICAL FEATURES

Self extinguishing PC body with high impact resistance, suitable for outdoor use thanks to the IP65 protection grade

## OPTICAL FEATURES

6x Bright LEDs (3 per side). The vertically lined lens allows a perfect light distribution over 360°. Available with 2 different lens types, according to the final application

### allCOLOR STANDARD USE

Colored lens with colored light source.  
The use of a colored lens with the same-color light source allows optimization of the emission frequency producing a rich intense light output

### allCLEAR USE IN VERY BRIGHT ENVIRONMENTS

Clear lens with colored light source.  
In very bright environments it is possible that the ambient brightness lights up the module when it is switched OFF creating problems in distinguishing between the ON and OFF state of the stacklight (phantom effect). The clear lens module allows clear distinction between the ON and OFF status of the stacklight



## CERTIFICATIONS



PENDING

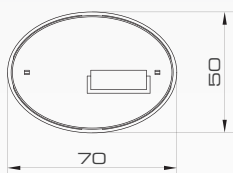


- > MULTIFUNCTION <
- > SUPERBRIGHT <
- > LOW CONSUMPTION <
- > RESISTANCE TO VIBRATIONS <



PC	-30 +50 C°	IP65	ON	CLASS 2	SELF EXTINGUISHING
LED SMD	DIFFUSED	CPM 2F 72 +/-10	CPM 3F 71 +/-10	CPM 5F 70 +/-10	FPM RANDOM <b>new</b>
PLC READY SINKING SOURCING		mA max 100			

## DRAWINGS, DIMENSIONS AND WEIGHTS



## ELYPS LM X MULTI | PART NO

- 32351
- 32352
- 32353
- 32354
- 32355
- 32356

## ELYPS LM X MULTI LIGHT MODULE

Integrated superbright LED multifunctional light module engineered to naturally substitute traditional Xenon discharge lamps modules.

Enriched by 4 light effects: double flash, triple flash, stroboscopic and random. The random effect consists in an uneven flashing pattern, augmenting the ability of catching attention.

ELYPS LM X MULTI offers versatility and good optical performance as well as virtually zero maintenance thanks to the built-in LED technology that guarantees up to 100.000\* hours of product life.

\*At normal conditions, without vibrations and heavy temperature changes

## KEY CHARACTERISTICS

### LIGHT EFFECTS

2x FLASH | 3x FLASH | 5x FLASH | RANDOM  
Selectable via dip-switch

### VOLTAGES

According to selected Wiring Module (WM)  
With WM LT and WM LT MULTI: 12/24V ACDC  
With WM HT and WM HT MULTI: 120/240V AC

### PROTECTION GRADE

IP65, suitable for outdoor applications

### OPERATING TEMPERATURE

-30/+50 C°

## MECHANICAL FEATURES

Self extinguishing PC body with high impact resistance, suitable for outdoor use thanks to the IP65 protection grade

## OPTICAL FEATURES

2x SuperBright LEDs (1 per side). The vertically lined lens allows a perfect light distribution over 360°

## CERTIFICATIONS



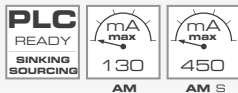
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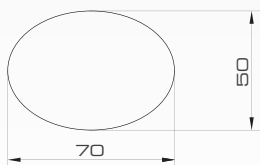
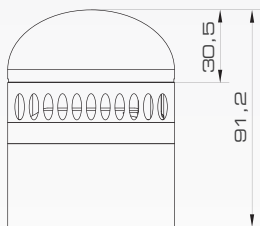
### ELYPS AM



### ELYPS AM S



### DRAWINGS, DIMENSIONS AND WEIGHTS



### ELYPS AM | PART NO

	Grey	Black	White
ELYPS AM	32337	32338	32339
ELYPS AM S	32347	32348	32349

## ELYPS AM ACOUSTIC MODULE

ELYPS AM acoustic modules are the right complement to add acoustic signalization to the luminous part of the stacklight. According to each application need, there are 2 possible solutions:

### ELYPS AM

Piezoelectric acoustic module with 2 sounds (intermittent and continuous) over 2 channels (1+1). It allows to use both channels, by connecting 2 of the 7 available contacts of the wiring module.

### ELYPS AM S

Magnetodynamic acoustic module with 16 sounds (mixed types) over 2 channels (8+8). It allows to use both channels, by connecting 2 of the 7 available contacts of the wiring module. For each channel it is possible to select the sound via dip-switch.

### KEY CHARACTERISTICS

#### ADJUSTABLE VOLUME

AM S | Min. 60 dB - Max. 90 dB

#### NUMBER OF TONES

AM | 1+1 sounds (intermittent + continuous) over 2 channels

AM S | 8+8 sounds (mixed types) over 2 channels

#### VOLTAGES

According to selected Wiring Module (WM)  
 With WM LT and WM LT MULTI: 12/24V ACDC  
 With WM HT and WM HT MULTI: 120/240V AC

#### PROTECTION GRADE

IP65, suitable for outdoor applications

#### OPERATING TEMPERATURE

-30/+50 C°

### MECHANICAL FEATURES

Self extinguishing PC body with high impact resistance, suitable for outdoor use thanks to the IP65 protection grade

### ACOUSTIC FEATURES

AM | Piezoelectric unit, frequency 3600Hz +/-100

AM S | Magnetodynamic unit, mixed frequencies 490-2800Hz

### CERTIFICATIONS



PENDING



**FLAT BASE**

**WALL BASE**

**POLE BASE**  
1/2" NPT-F

**EXTENDED BASE**

**TUBE BASE**  
Shown:  
BASE MB TUBE SS L400

### ELYPS MB | PART NO

	■	■	□
<b>ELYPS MB</b> FLAT BASE	32357	32358	32359
<b>ELYPS MB</b> WALL BASE	32367	32368	32369
<b>ELYPS MB</b> POLE BASE	32387	32388	32389
<b>ELYPS MB</b> EXTENDED BASE	32377	32378	32379
<b>ELYPS MB</b> TUBE BASE			
<b>SS L100</b>	32420	32424	32428
<b>SS L200</b>	32421	32425	32429
<b>SS L300</b>	32422	32426	32430
<b>SS L400</b>	32423	32427	32431

## ELYPS MB MOUNTING BASE

### FLAT BASE

Designed for flat surface mounting when cabling occurs from the bottom of the device and where a compact design is required.

### WALL BASE

Designed for lateral/wall mounting.

### POLE BASE

Designed for installation on a 1/2" NPT-F threaded pole.

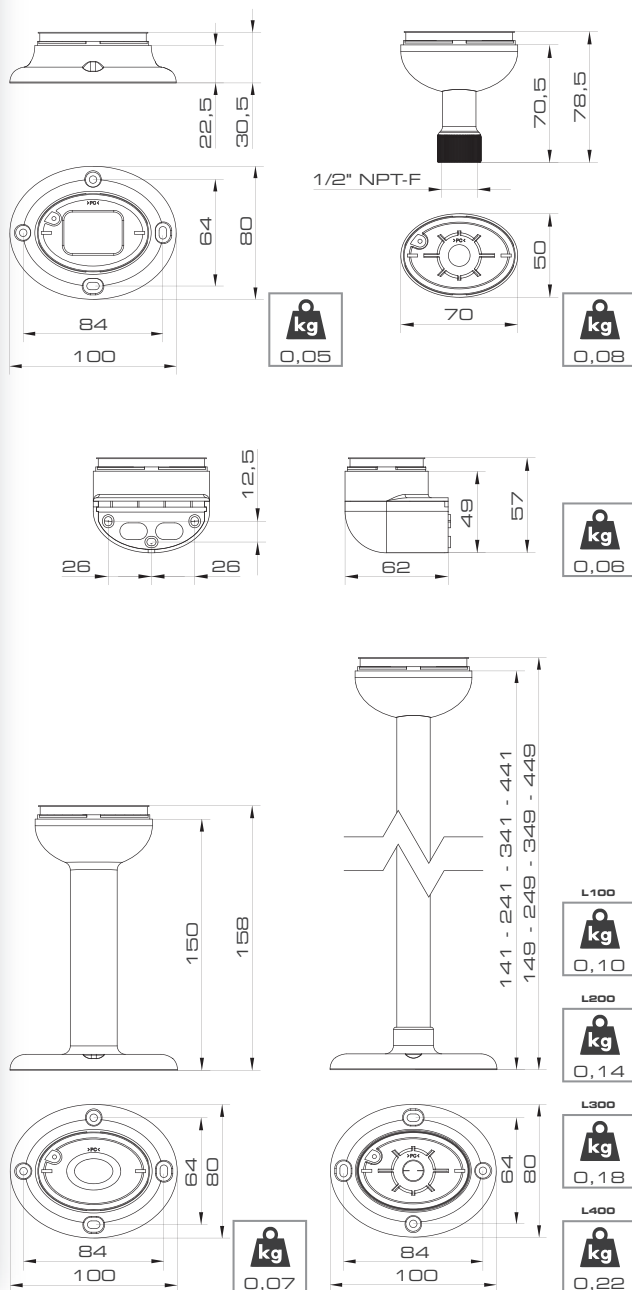
### EXTENDED BASE

Designed for mounting on flat surface. Stacklight position lifted by 10cm.

### TUBE BASE

Designed for flat surface mounting with Stainless Steel extension tube. Tube lengths available: 10, 20, 30 and 40cm. Custom lengths available on request.

### DRAWINGS, DIMENSIONS AND WEIGHTS





# RANGE TWS





## INTRODUCTION

**S**irena, leader in the visual and acoustic signaling industry, is aware of the continuous manufacturing renovation process characterizing the industrial world.

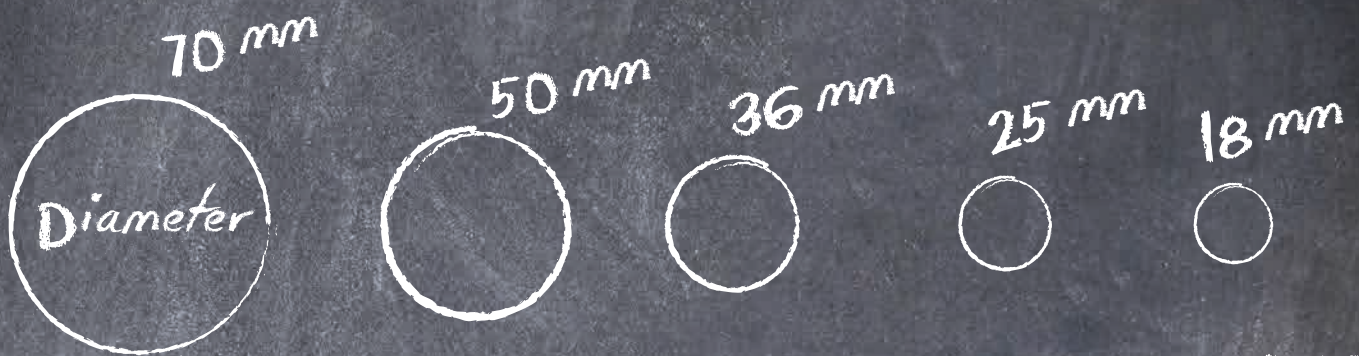
For this reason, **AUTOMAX** has been developed, including the range of stacklights especially engineered for installation on machines and in industrial sites: **TWS** range.

**TWS** is available in five different sizes suitable for all types of industrial applications:

- **TWS**: 70 mm diameter  
Traditional, integrated LED, Xenon and sounder modules completed with a wide range of accessories
- **miniTWS**: 50 mm diameter
- **babyTWS**: 36 mm diameter
- **microTWS**: 25 mm diameter
- **nanoTWS**: 18 mm diameter



# TWS COMPARATIVE TABLE



TWS

miniTWS

babyTWS

microTWS

nanoTWS



## CHARACTERISTICS

**T**he main characteristics that distinguish the **TWS** stacklights range are:

- **UNIQUE ELECTRICAL SAFETY**

**TWS** stacklight provides an unprecedented electrical safety concept. The special connection board is inserted in the slots of the connecting module creating an electrical contact in total safety. All modules can be assembled/disassembled without removing the power supply.

- **EASY INSTALLATION**

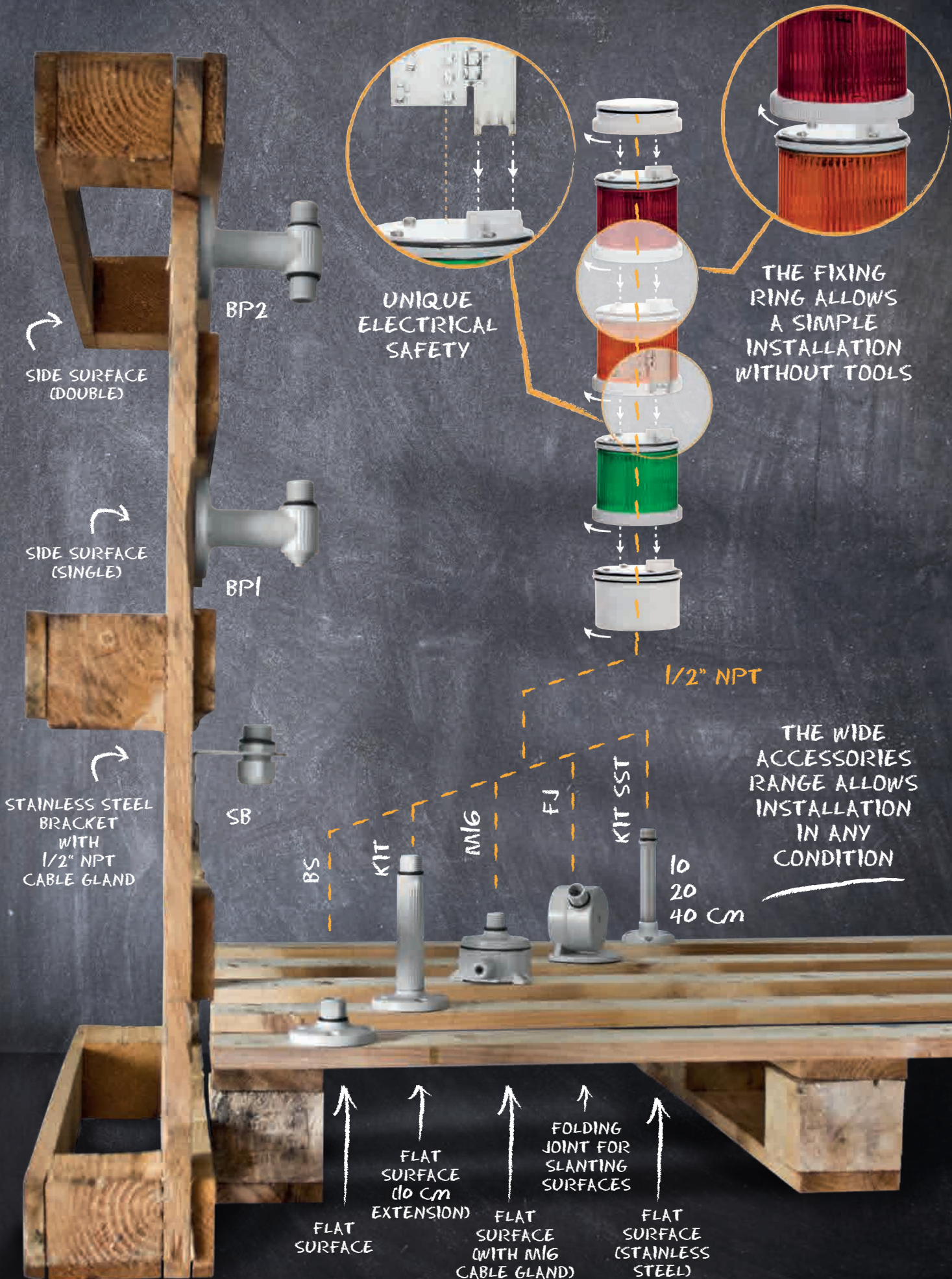
Quick and easy tool-less assembly. The locking ring allows modules to be tightly secured to each other and prevents accidental unscrewing thanks to the special connecting system.

- **A WIDE RANGE OF ACCESSORIES FOR OPTIMAL VERSATILITY**

The wide range of accessories allows multiple installation possibilities. The accessories are fitted with a 1/2" NPT thread and can be mounted on the **TWS** range maintaining all mechanical characteristics.



# Mounting Combinations





## TWS BASE

Wiring base for the TWS range. With 1 common + 5 independent contacts, allows mounting of maximum 5 light modules or 4 light modules + 1 sounder module.

Provided with top cap to be used when the sounder module is not installed.

### NOTE

Must be included with every stacklight

## KEY CHARACTERISTICS

### MAXIMUM NUMBER OF MODULES

5 light modules or 4 + 1 sounder module

### VOLTAGES

Max 240V

### PROTECTION GRADE

IP66, UL TYPE 4X, suitable for outdoor applications

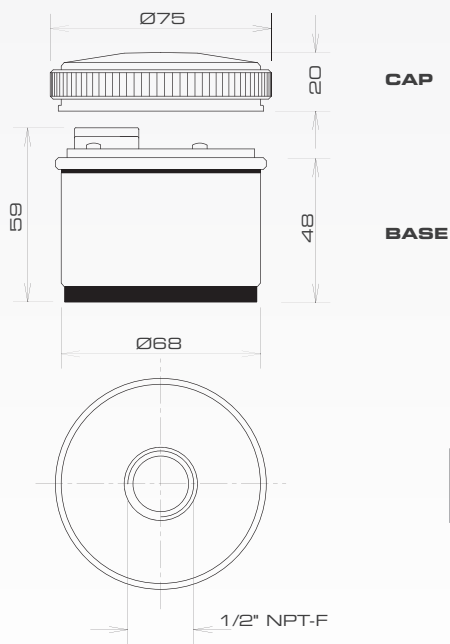
### OPERATING TEMPERATURE

-30/+50 C°

## MECHANICAL FEATURES

Self extinguishing PC body with high impact resistance, suitable for outdoor use thanks to the IP66/TYPER 4X protection grade guaranteed by a double polyurethane gasket installed on every module. A 1/2" NPT-F thread allows mounting of the complete accessory line. Can also be installed directly (without accessories) on the machinery by drilling the marked pre-holes and using the provided gasket

## DRAWINGS, DIMENSIONS AND WEIGHTS



## TWS BASE | PART NO

See page 37, section "BASES"

## CERTIFICATIONS



# TWS LED

# SIRENA AUTOMAX



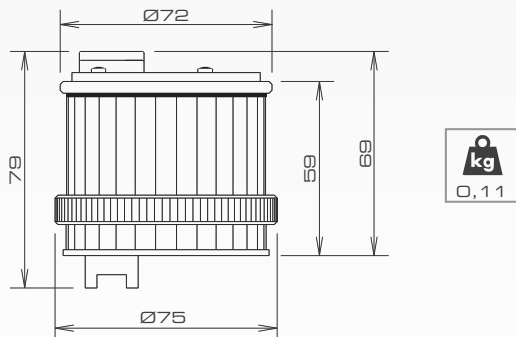
> **LOW CONSUMPTION** <  
> **RESISTANCE TO VIBRATIONS** <



PC	-30 +50 C°	IP66	ON	CLASS 2	SELF EXTINGUISHING	PLC READY
SMD	DIFFUSED	OPALINE	FPM 1F 75 ±1-10	FPM 2F 85 ±1-10	FPM 3F 85 ±1-10	mA max 85

X  
TWS LED MULTI

## DRAWINGS, DIMENSIONS AND WEIGHTS



## TWS LED | PART NO

See page 37, section "TWS LED"

## TWS LED

Integrated LED light module.

Available in STEADY (steady light) and MULTI (steady light, single flash, double flash, triple flash) version, TWS LED offers versatility and excellent optical performance as well as virtually zero maintenance thanks to the built-in LED technology that guarantees up to 100.000\* hours of product life.

Available with allCOLOR, allCLEAR and Proximity lens, TWS LED is the right choice for a high-end stacklight module.

\*At normal conditions, without vibrations and heavy temperature changes

## KEY CHARACTERISTICS

### LIGHT EFFECTS

TWS LED STEADY | STEADY LIGHT  
TWS LED MULTI | STEADY, SINGLE FLASH, DOUBLE FLASH, TRIPLE FLASH (via dip-switch)

### VOLTAGES

24V ACDC, 110V AC, 240V AC +/-10%

### PROTECTION GRADE

IP66, UL TYPE 4X, suitable for outdoor applications

### OPERATING TEMPERATURE

-30/+50 C°

## MECHANICAL FEATURES

Self extinguishing PC body with high impact resistance, suitable for outdoor use thanks to the IP66/TYPE 4X protection grade guaranteed by a double polyurethane gasket installed on every module

## OPTICAL FEATURES

The vertically lined lens allows a perfect light distribution over 360°. Available with 3 different lens types, according to the final application

### allCOLOR

#### STANDARD USE

Colored lens with colored light source. The use of a colored lens with the same color of light source allows optimization of the emission frequency producing a rich intense light output

### allCLEAR

#### USE IN VERY BRIGHT ENVIRONMENTS

Clear lens with colored light source. In very bright environments it is possible that the ambient brightness lights up the module when it is switched OFF creating problems in distinguishing between the ON and OFF state of the stacklight (phantom effect). The clear lens module allows clear distinction between the ON and OFF status of the stacklight



### PROXIMITY

#### USE NEAR THE OPERATOR

Opaline colored lens with colored light source. Ideal when the tower is installed near the operator. The opaline characteristic allows an optimal signaling function yet without disturbing

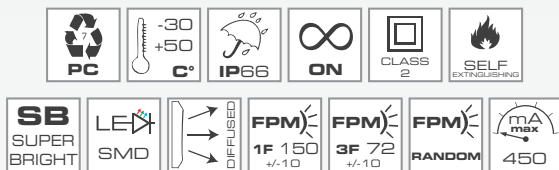


## CERTIFICATIONS

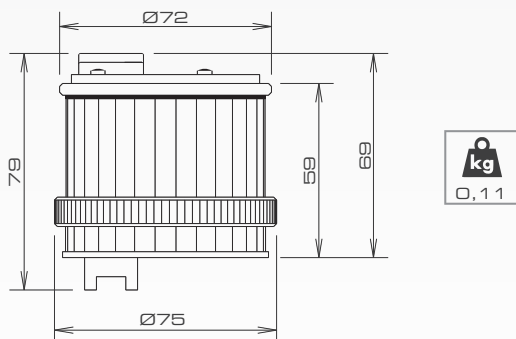




- > SUPERBRIGHT <
- > NEW RANDOM EFFECT <
- > LOW CONSUMPTION <
- > RESISTANCE TO VIBRATIONS <



### DRAWINGS, DIMENSIONS AND WEIGHTS



### TWS S | PART NO

See page 37, section "TWS S"

## TWS S new

Superbright multifunctional integrated LED light module engineered for longer distance signalization.

Enriched by 4 light effects: steady, flashing, strobe and random. The random effect consists in an uneven flashing pattern, augmenting the ability of catching attention.

TWS S offers versatility and excellent optical performance as well as virtually zero maintenance thanks to the built-in LED technology that guarantees up to 100.000\* hours of product life.

Available with allCOLOR and allCLEAR lens, TWS LED is the right choice for a high-end superbright stacklight module.

\*At normal conditions, without vibrations and heavy temperature changes

### KEY CHARACTERISTICS

#### LIGHT EFFECTS

STEADY, FLASHING, STROBE, RANDOM

#### VOLTAGES

24V ACDC +/-10%

#### PROTECTION GRADE

IP66, UL TYPE 4X, suitable for outdoor applications

#### OPERATING TEMPERATURE

-30/+50 C°

### MECHANICAL FEATURES

Self extinguishing PC body with high impact resistance, suitable for outdoor use thanks to the IP66/TYPER 4X protection grade guaranteed by a double polyurethane gasket installed on every module

### OPTICAL FEATURES

The vertically lined lens allows a perfect light distribution over 360°. Available with 2 different lens types, according to the final application

#### allCOLOR STANDARD USE

Colored lens with colored light source. The use of a colored lens with the same color of light source allows optimization of the emission frequency producing a rich intense light output

#### allCLEAR USE IN VERY BRIGHT ENVIRONMENTS

Clear lens with colored light source. In very bright environments it is possible that the ambient brightness lights up the module when it is switched OFF creating problems in distinguishing between the ON and OFF state of the stacklight (phantom effect). The clear lens module allows clear distinction between the ON and OFF status of the stacklight



### CERTIFICATIONS





- > SUPERBRIGHT <
- > MULTICOLOR <
- > LOW CONSUMPTION <
- > RESISTANCE TO VIBRATIONS <



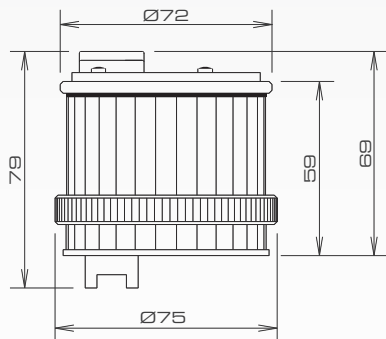
MODULE



RING

PC	-30 +50 C°	IP66	ON	CLASS 2	SELF EXTINGUISHING
SB SUPER BRIGHT	LED SMD	DIFFUSED	FPM 1F 150 ±10	RGA	mA max 430

## DRAWINGS, DIMENSIONS AND WEIGHTS



## TWS RGA | PART NO

See page 37, section "TWS RGA"

## TWS RGA new

Superbright multicolor integrated LED light module engineered for longer distance signalization.

Multicolor technology allows 3 different colors (red, amber, green) on the same module. Each color is controllable via an independent channel, allowing to deliver 3 different messages from a single module. Furthermore, each channel can be set to steady or flashing mode.

TWS RGA offers versatility and excellent optical performance as well as virtually zero maintenance thanks to the built-in LED technology that guarantees up to 100.000\* hours of product life.

Available with allCLEAR lens, TWS RGA is the right choice for a high-end multicolor stacklight module.

\*At normal conditions, without vibrations and heavy temperature changes

## KEY CHARACTERISTICS

**LIGHT EFFECTS**  
STEADY, FLASHING

**VOLTAGES**  
24V ACDC +/-10%

**PROTECTION GRADE**  
IP66, UL TYPE 4X, suitable for outdoor applications

**OPERATING TEMPERATURE**  
-30/+50 C°

## MECHANICAL FEATURES

Self extinguishing PC body with high impact resistance, suitable for outdoor use thanks to the IP66/TYPE 4X protection grade guaranteed by a double polyurethane gasket installed on every module

## OPTICAL FEATURES

The vertically lined lens allows a perfect light distribution over 360°. Available with allCLEAR lens

### allCLEAR **USE IN VERY BRIGHT ENVIRONMENTS**

Clear lens with colored light source. In very bright environments it is possible that the ambient brightness lights up the module when it is switched OFF creating problems in distinguishing between the ON and OFF state of the stacklight (phantom effect). The clear lens module allows clear distinction between the ON and OFF status of the stacklight

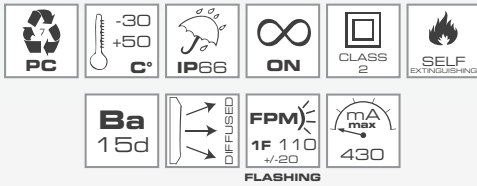


## CERTIFICATIONS

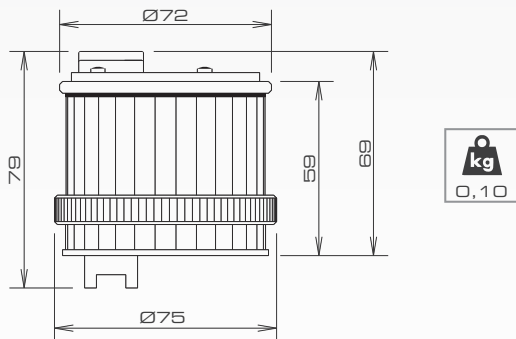




> BA15D <  
> LED BULB COMPATIBLE <



## DRAWINGS, DIMENSIONS AND WEIGHTS



## TWS STEADY/FLASHING | PART NO

See page 37, section "TWS STEADY/FLASHING"

## TWS STEADY/FLASHING

Light module with traditional Ba15d lamp holder. Allows the use of traditional 5W incandescent filament bulbs as well as low consumption LED bulbs.

Available in STEADY and FLASHING version, this module is the ideal choice when economic efficiency is the priority and where a future upgrade to LED version (bulbs or integrated module) is foreseen.

## KEY CHARACTERISTICS

### LIGHT EFFECTS

TWS STEADY | STEADY LIGHT  
TWS FLASHING | FLASHING LIGHT

### VOLTAGES

TWS STEADY | 12/240V ACDC +/-10%  
TWS FLASHING | 12/48V DC, 24/240V AC +/-10%

### PROTECTION GRADE

IP66, UL TYPE 4X, suitable for outdoor applications

### OPERATING TEMPERATURE

-30/+50 C°

## MECHANICAL FEATURES

Self extinguishing PC body with high impact resistance, suitable for outdoor use thanks to the IP66/TYPER 4X protection grade guaranteed by a double polyurethane gasket installed on every module

## OPTICAL FEATURES

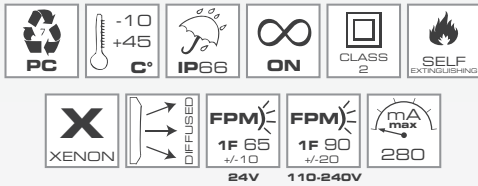
The vertically lined lens allows a perfect light distribution over 360°

## CERTIFICATIONS

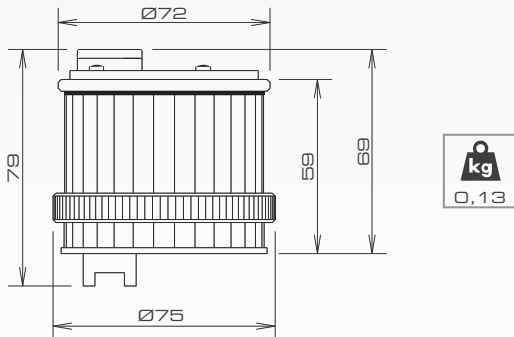




## > XENON <



## DRAWINGS, DIMENSIONS AND WEIGHTS



## TWS X | PART NO

See page 37, section "TWS X"

## TWS X

Light module with integrated Xenon discharge lamp.

Xenon technology allows a high intensity flash ideal for attracting attention in the most critical situations.

The powerful 2 Joules flash can be seen at a further distance when compared to incandescent bulbs, making this product ideal for all applications where a high light intensity value is required.

## KEY CHARACTERISTICS

**LIGHT EFFECTS**  
FLASHING

**VOLTAGES**  
24V ACDC, 110V AC, 240V AC +/-10%

**PROTECTION GRADE**  
IP66, UL TYPE 4X, suitable for outdoor applications

**OPERATING TEMPERATURE**  
-10/+45 C°

## MECHANICAL FEATURES

Self extinguishing PC body with high impact resistance, suitable for outdoor use thanks to the IP66/TYPER 4X protection grade guaranteed by a double polyurethane gasket installed on every module

## OPTICAL FEATURES

The vertically lined lens allows a perfect light distribution over 360°

## CERTIFICATIONS





TWS PZO

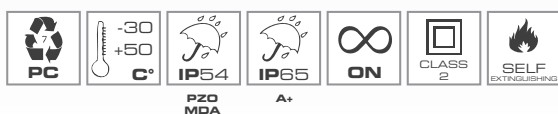


TWS MDA



TWS A+

> IP 65 <



PZO  
MDA

A+

## TWS SOUNDERS | PART NO

See page 37, section "SOUNDERS"

## TWS SOUNDERS

TWS sounder modules are the right complement to add acoustic signalization to the luminous part of the stacklight. According to each application need, there are 3 possible solutions:

### TWS PZO

Piezoelectrical sounder. 6 tones selectable via dip-switch

### TWS MDA

High output magnetodynamic sounder. 32 tones selectable via dip-switch

### TWS A+

High protection grade magnetodynamic sounder. 16 tones selectable via dip-switch, this IP65 module is ideal for outdoor applications

## KEY CHARACTERISTICS

### NUMBER OF TONES

PZO | 3 (low output) + 3 (high output)  
MDA | 32 (mixed tones)  
A+ | 16 (mixed tones)

### VOLTAGES

PZO | 12/48V ACDC, 110/240V AC +/-10%  
MDA | 12/24V ACDC, 48V AC, 110V AC, 240V AC +/-10%  
A+ | 12/24V ACDC, 110/240V AC +/-10%

### PROTECTION GRADE

PZO | IP54, UL TYPE 3R  
MDA | IP54, UL TYPE 3R  
A+ | IP65, UL TYPE 3R

### OPERATING TEMPERATURE

-30/+50 C°

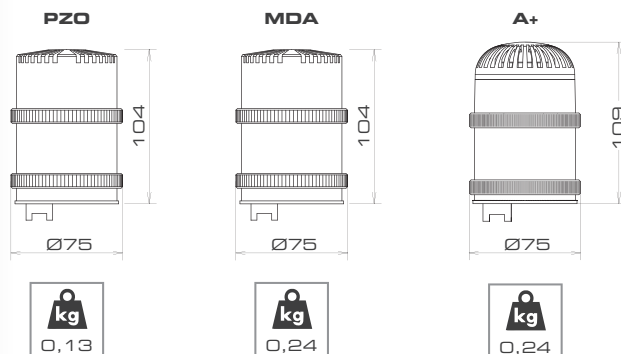
## MECHANICAL FEATURES

Self extinguishing PC body with high impact resistance, suitable for outdoor use thanks to the IP54/TYPER 3R (A+: IP65/ TYPER 3R) protection grade

## ACOUSTIC FEATURES

PZO | Piezoelectrical unit, frequency 2800Hz +/-100  
MDA | Magnetodynamic unit, frequency range 300-2850Hz  
A+ | Magnetodynamic unit, frequency range 300-2850Hz

## DRAWINGS, DIMENSIONS AND WEIGHTS



## CERTIFICATIONS





TWS HD SS



AISI 316 SST

BODY



TUBE



HD HEAVY DUTY



Assembly example with 3 TWS S allCOLOR modules

> STAINLESS STEEL <  
> IP69K <

TWS HD AL



BODY



TUBE



HD HEAVY DUTY



Assembly example with 3 TWS LED PROXIMITY modules

> ANODIZED ALUMINIUM <  
> IP69K <

TWS HD | PART NO

See page 37, section "TWS HD"

## TWS HD SS new

IP69K stainless steel enclosure engineered for the TWS range.

IP69K grade protects stacklight from high temperature and pressure dust/water, making this product ideal in all situations where machineries need to be accurately sanitized.

Particularly in the food industry, where hygiene is a must, machinery needs to be able to withstand wash-down (high pressure/high temperature washing) procedures.

IP69K is the highest protection grade available.

TWS HD enclosure can be installed on a threaded pole, on flat surfaces or on lateral (wall) surfaces using the accessories range.

## TWS HD AL new

Heavy Duty anodized aluminum enclosure engineered for the TWS range.

Allows protection from high pressure and temperature dust/water (protection grade IP69K).

### KEY CHARACTERISTICS

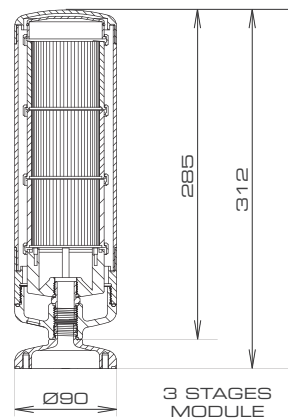
**PROTECTION GRADE**  
TÜV SÜD IP69K

### MECHANICAL FEATURES

**SS** | Polished stainless steel (AISI 316) body. UV resistant polycarbonate tube. A Goretex valve installed at the bottom of the enclosure allows a condense-free environment

**AL** | Black anodized aluminum body. UV resistant polycarbonate tube. A Goretex valve installed at the bottom of the enclosure allows a condense-free environment

### DRAWINGS, DIMENSIONS AND WEIGHTS



**kg** SS  
2,70

**kg** AL  
1,10

### CERTIFICATIONS

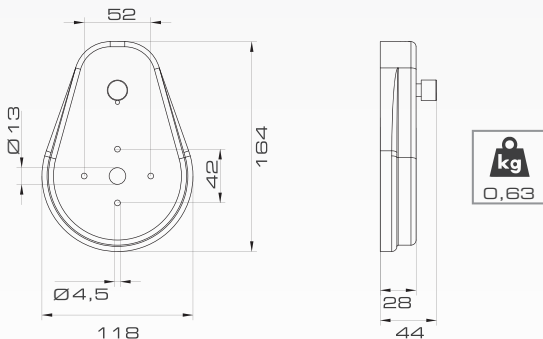




> **DESK-TOP BASE** <  
> **COMPATIBLE WITH TWS RANGE** <



## DRAWINGS, DIMENSIONS AND WEIGHTS



**TWS B4D | PART NO**

See page 37, section "BASES"

## TWS B4D **new**

Desk-top base compatible with the TWS (70 mm) range: can be used with all light modules of the range and in conjunction with one sounder module. It allows stacklight temporary placement directly on the area where signalization is required.

Can be turned on manually via on-board switching. TWS B4D allows bringing stacked signaling where industrial automation is not installed. Can be used in a smaller size production facilities to signal specific operator requests, as well as details of operations progress.

TWS B4D allows activating one single module at the time or all modules together. Can be used with a maximum of 3 light modules or with 2 light modules + 1 sounder module.

## KEY CHARACTERISTICS

### OPERATING MODES

Four independent functions:

Set to 0 | OFF

Set to 1 | Module 1 ON

Set to 2 | Module 2 ON

Set to 3 | Module 3 ON

Set to 4 | Module 1+2+3 ON

### VOLTAGES

90/240V AC +/-10% (power supply included)

### PROTECTION GRADE

Indoor use

### OPERATING TEMPERATURE

-30/+50 C°

## MECHANICAL FEATURES

Self extinguishing PC for indoor use. Anti-skid polyurethane gasket on the base of the product



## CERTIFICATIONS



### TWS LED - Integrated LED light module

STEADY		GY	BK	GY	BK	GY	BK	GY	BK	GY	BK	GY	BK
allCOLOR	24V ACDC	36471	36681	36472	36682	36473	36683	36474	36684	36475	36685	36476	36686
	110V AC	36481	36691	36482	36692	36483	36693	36484	36694	36485	36695	36486	36696
	240V AC	36491	36701	36492	36702	36493	36703	36494	36704	36495	36705	36496	36706
allCLEAR	24V ACDC	33121	33151	33122	33152	33123	33153	33124	33154	33125	33155	33126	33156
	110V AC	33131	33161	33132	33162	33133	33163	33134	33164	33135	33165	33136	33166
	240V AC	33141	33171	33142	33172	33143	33173	33144	33174	33145	33175	33146	33176
PROXIMITY	24V ACDC	32201	32231	32202	32232	32203	32233	32204	32234	32205	32235	32206	32236
	110V AC	32211	32241	32212	32242	32213	32243	32214	32244	32215	32245	32216	32246
	240V AC	32221	32251	32222	32252	32223	32253	32224	32254	32225	32255	32226	32256
MULTI (steady, single flash, double flash, triple flash)													
allCOLOR	24V ACDC	36501	36711	36502	36712	36503	36713	36504	36714	36505	36715	36506	36716
	110V AC	36511	36721	36512	36722	36513	36723	36514	36724	36515	36725	36516	36726
	240V AC	36521	36731	36522	36732	36523	36733	36524	36734	36525	36735	36526	36736
allCLEAR	24V ACDC	33181	33211	33182	33212	33183	33213	33184	33214	33185	33215	33186	33216
	110V AC	33191	33221	33192	33222	33193	33223	33194	33224	33195	33225	33196	33226
	240V AC	33201	33231	33202	33232	33203	33233	33204	33234	33205	33235	33206	33236
PROXIMITY	24V ACDC	32261	32291	32262	32292	32263	32293	32264	32294	32265	32295	32266	32296
	110V AC	32271	32301	32272	32302	32273	32303	32274	32304	32275	32305	32276	32306
	240V AC	32281	32311	32282	32312	32283	32313	32284	32314	32285	32315	32286	32316

### TWS S - Superbright multifunctional integrated LED light module

		GY	BK	GY	BK	GY	BK	GY	BK	GY	BK	GY	BK
allCOLOR	12/24V ACDC	33411	33421	33412	33422	33413	33423	33414	33424	33415	33425	33416	33426
allCLEAR	12/24V ACDC	33431	33441	33432	33442	33433	33443	33434	33444	33435	33445	33436	33446

### TWS STEADY/FLASHING\* - Light module with traditional Ba15d lamp holder

STEADY		GY	BK	GY	BK	GY	BK	GY	BK	GY	BK	GY	BK
12/240V ACDC		27701	27631	27702	27632	27703	27633	27704	27634	27705	27635	27706	27636
FLASHING		GY	BK	GY	BK	GY	BK	GY	BK	GY	BK	GY	BK
12/48V DC		27711	27641	27712	27642	27713	27643	27714	27644	27715	27645	27716	27646
24/240V AC		27721	27651	27722	27652	27723	27653	27724	27654	27725	27655	27726	27656

\*Supplied without bulb

### TWS X - Light module with integrated Xenon discharge lamp

		GY	BK	GY	BK	GY	BK	GY	BK	GY	BK	GY	BK
24V ACDC		27731	27661	27732	27662	27733	27663	27734	27664	27735	27665	27736	27666
110V AC		27741	27671	27742	27672	27743	27673	27744	27674	27745	27675	27746	27676
240V AC		27751	27681	27752	27682	27753	27683	27754	27684	27755	27685	27756	27686

### TWS RGA - Superbright multicolor integrated LED light module

		GY	BK
12/24V ACDC		33447	33448

### TWS HD

		SS	AL
ENCLOSURE (2)		27602	27603
ENCLOSURE (3)		27677	27840
ENCLOSURE (4)		27606	27607
FLAT MOUNTER		27679	27841
POLE MOUNTER		27678	27842
SIDE MOUNTER		27680	27843

### SOUNDERS

		GY	BK
PZO	12/48V ACDC	27718	27625
PZO	110/240V AC	27719	27628
MDA	12/24V ACDC	27790	27794
MDA	48V AC	27791	27795
MDA	110V AC	27792	27796
MDA	240V AC	27793	27797
A+	12/24V ACDC	33400	33402
A+	110/240V AC	33401	33403

### BASES

		GY	BK
BASE		27700	27690
B4D		-	21437

### ACCESSORIES

		WH	GY	BK
BP1	27708	27762	27693	
BP2	-	27763	27694	
SB	33359	33357	33358	
BS	-	27760	27691	
KIT	-	27764	27695	
PR	-	27761	27692	
M16	-	27777	27778	
FJ	33349	33347	33348	
KIT SS L10		27765	27845	
KIT SS L20		27766	27846	
KIT SS L40		27767	27847	

# TWS

## miniTWS

**T**he **miniTWS** range has the same safety and assembly characteristics as the 70mm version. It is a compact version suitable for installation on smaller machines or to provide signaling in the vicinity of the operator. The light modules are fitted with integrated LEDs.

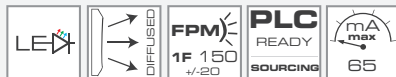
Available in gray (industrial), black (industrial) and white (civil), the **miniTWS** range is particularly suitable for use in civil environments where the signaling function is important but where the overall appearance of the stacklight shall remain minimal.

Can be complemented with a sounder module and can be used with the complete range of **TWS** accessories.





> **LOW CONSUMPTION** <  
> **RESISTANCE TO VIBRATIONS** <



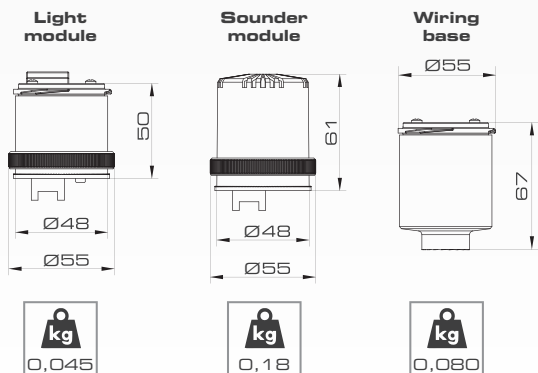
**Sounder module**



**Wiring base**



## DRAWINGS, DIMENSIONS AND WEIGHTS



miniTWS | PART NO

See page 46, section "miniTWS"

## miniTWS

### LIGHT MODULE

Integrated LED light module can be set to STEADY or FLASHING via internal jumper. miniTWS offers versatility and excellent optical performance as well as virtually zero maintenance thanks to the built-in LED technology that guarantees up to 100.000\* hours of product life.

Available with allCOLOR and allCLEAR lens, miniTWS is the right choice for a compact stacklight module.

### SOUNDER MODULE

Sounder module adds acoustic signalization to the luminous part of the stacklight.

### WIRING BASE

Wiring base for the miniTWS range. With 1 common + 5 independent contacts, allows mounting of maximum 5 light modules or 4 light modules + 1 sounder module.

Provided with top cap to be used when the sounder module is not installed.

\*At normal conditions, without vibrations and heavy temperature changes

## KEY CHARACTERISTICS

### LIGHT EFFECTS

STEADY, FLASHING

### ACOUSTIC

BITONAL SOUND, 77dB

### VOLTAGES

24V ACDC, 110V AC, 240V AC +/-10%

### PROTECTION GRADE

IP66, UL TYPE 4X, suitable for outdoor applications

### OPERATING TEMPERATURE

-30/+50 C°

## MECHANICAL FEATURES

Self extinguishing PC body with high impact resistance, suitable for outdoor use thanks to the IP66/TYPER 4X protection grade guaranteed by a double polyurethane gasket installed on every module

## OPTICAL FEATURES

The vertically lined lens allows a perfect light distribution over 360°. Available with 2 different lens types, according to the final application

### allCOLOR

#### STANDARD USE

Colored lens with colored light source. The use of a colored lens with the same color of light source allows optimization of the emission frequency producing a rich intense light output

### allCLEAR

#### USE IN VERY BRIGHT ENVIRONMENTS

Clear lens with colored light source. In very bright environments it is possible that the ambient brightness lights up the module when it is switched OFF creating problems in distinguishing between the ON and OFF state of the stacklight (phantom effect). The clear lens module allows clear distinction between the ON and OFF status of the stacklight



## ACOUSTIC FEATURES

Magnetodynamic module with bitonal sound with frequency of 800/1000Hz and 77dB output

## CERTIFICATIONS



# TWS

## babyTWS

**T**he baby**TWS** range has been developed to fulfil all applications where a compact-size stacklight is required, and where aesthetic is a must.

Available in gray (industrial), black (industrial) and white (civil), the baby**TWS** range is particularly suitable for use in civil environments where the signaling function is important but where the overall appearance of the stacklight shall remain minimal.

Can be complemented with a sounder module and can be used with the complete range of **TWS** accessories.





> **LOW CONSUMPTION** <  
> **RESISTANCE TO VIBRATIONS** <



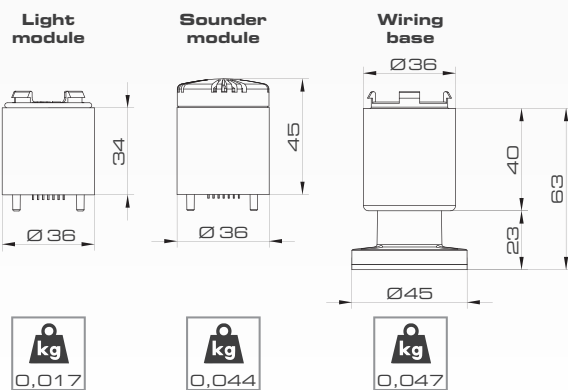
**Sounder module**



**Wiring base**



## DRAWINGS, DIMENSIONS AND WEIGHTS



babyTWS | PART NO

See page 46, section "babyTWS"

## babyTWS

### LIGHT MODULE

Integrated LED STEADY light module babyTWS offers versatility and excellent optical performance as well as virtually zero maintenance thanks to the built-in LED technology that guarantees up to 100.000\* hours of product life.

Available with allCOLOR and allCLEAR lens, babyTWS is the right choice for a compact stacklight module.

### SOUNDER MODULE

Sounder module adds acoustic signalization to the luminous part of the stacklight.

### WIRING BASE

Wiring base for the babyTWS range. With 1 common + 6 independent contacts, allows mounting of maximum 6 light modules or 5 light modules + 1 sounder module.

Provided with top cap to be used when the sounder module is not installed.

\*At normal conditions, without vibrations and heavy temperature changes

## KEY CHARACTERISTICS

**LIGHT EFFECTS**  
STEADY

**ACOUSTIC**  
INTERMITTENT SOUND, 72dB

**VOLTAGES**  
24V ACDC +/-10%

**PROTECTION GRADE**  
IP65, UL TYPE 3R

**OPERATING TEMPERATURE**  
-30/+50 C°

## MECHANICAL FEATURES

Self extinguishing PC body with IP65/TYPE 3R protection grade

## OPTICAL FEATURES

The vertically lined lens allows a perfect light distribution over 360°. Available with 2 different lens types, according to the final application

### allCOLOR STANDARD USE

Colored lens with colored light source. The use of a colored lens with the same color of light source allows optimization of the emission frequency producing a rich intense light output

### allCLEAR USE IN VERY BRIGHT ENVIRONMENTS

Clear lens with colored light source. In very bright environments it is possible that the ambient brightness lights up the module when it is switched OFF creating problems in distinguishing between the ON and OFF state of the stacklight (phantom effect). The clear lens module allows clear distinction between the ON and OFF status of the stacklight



## ACOUSTIC FEATURES

Piezoelectric module with intermittent sound with frequency of 4000 +/-300Hz and 72dB output

## CERTIFICATIONS



# TWS

## microTWS

**T**he **microTWS** range is intended for all applications where it is necessary to use a very small stacklight such as industrial electrical panels and small machinery.

Available in gray (industrial), black (industrial) and white (civil), the **microTWS** range is particularly suitable for use in civil environments where the signaling function is important but where the overall appearance of the stacklight shall remain minimal.

Can be complemented with a sounder module.





> **LOW CONSUMPTION** <  
> **RESISTANCE TO VIBRATIONS** <

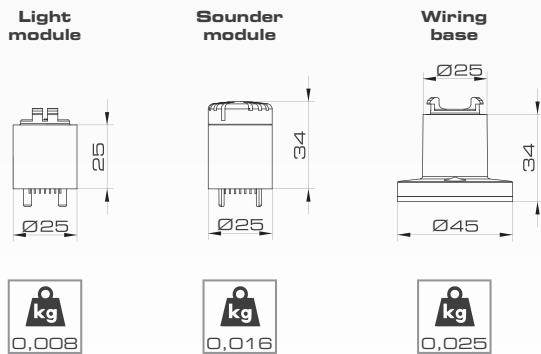


**Sounder module**

**Wiring base**



## DRAWINGS, DIMENSIONS AND WEIGHTS



microTWS | PART NO

See page 46, section "microTWS"

## microTWS

### LIGHT MODULE

Integrated LED STEADY light module babyTWS offers versatility and excellent optical performance as well as virtually zero maintenance thanks to the built-in LED technology that guarantees up to 100.000\* hours of product life.

Available with allCOLOR and allCLEAR lens, microTWS is the right choice for a luminous column for small site applications.

### SOUNDER MODULE

Sounder module adds acoustic signalization to the luminous part of the stacklight.

### WIRING BASE

Wiring base for the microTWS range. With 1 common + 6 independent contacts, allows mounting of maximum 6 light modules or 5 light modules + 1 sounder module.

Provided with top cap to be used when the sounder module is not installed.

\*At normal conditions, without vibrations and heavy temperature changes

## KEY CHARACTERISTICS

**LIGHT EFFECTS**  
STEADY

**ACOUSTIC**  
INTERMITTENT SOUND, 65dB

**VOLTAGES**  
24V ACDC +/-10%

**PROTECTION GRADE**  
Indoor use

**OPERATING TEMPERATURE**  
-30/+50 C°

## MECHANICAL FEATURES

Self extinguishing PC

## OPTICAL FEATURES

The vertically lined lens allows a perfect light distribution over 360°. Available with 2 different lens types, according to the final application

### allCOLOR STANDARD USE

Colored lens with colored light source. The use of a colored lens with the same color of light source allows optimization of the emission frequency producing a rich intense light output

### allCLEAR USE IN VERY BRIGHT ENVIRONMENTS

Clear lens with colored light source. In very bright environments it is possible that the ambient brightness lights up the module when it is switched OFF creating problems in distinguishing between the ON and OFF state of the stacklight (phantom effect). The clear lens module allows clear distinction between the ON and OFF status of the stacklight



## ACOUSTIC FEATURES

Piezoelectric module with intermittent sound with frequency of 3600+/-300Hz and 65dB output

## CERTIFICATIONS



# TWS

## nanoTWS

**T**he nano**TWS** range is suitable when an extremely small size module is required. It is the smallest stacklight on the market with a diameter of only 18mm. Can be used on industrial electric panels or on small machinery.

Available in gray (industrial), black (industrial) and white (civil), the nano**TWS** range is particularly suitable for use in civil environments where the signaling function is important but where the overall appearance of the stacklight shall remain minimal.

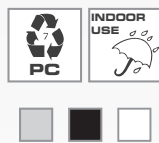




> **LOW CONSUMPTION** <  
> **RESISTANCE TO VIBRATIONS** <

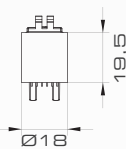


**Wiring base**

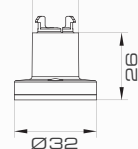


## DRAWINGS, DIMENSIONS AND WEIGHTS

**Light module**



**Wiring base**



nanoTWS | PART NO

See page 46, section "nanoTWS"

## nanoTWS

### LIGHT MODULE

Integrated LED STEADY light module nanoTWS offers versatility and excellent optical performance as well as virtually zero maintenance thanks to the built-in LED technology that guarantees up to 100.000\* hours of product life.

Available with allCOLOR and allCLEAR lens, nanoTWS is the right choice for a compact stacklight module.

### WIRING BASE

Wiring base for the nanoTWS range. With 1 common + 5 independent contacts, allows mounting of maximum 5 light modules.

Provided with top cap.

\*At normal conditions, without vibrations and heavy temperature changes

## KEY CHARACTERISTICS

**LIGHT EFFECTS**  
STEADY

**VOLTAGES**  
24V ACDC +/-10%

**PROTECTION GRADE**  
Indoor use

**OPERATING TEMPERATURE**  
-30/+50 C°

## MECHANICAL FEATURES

Self extinguishing PC

## OPTICAL FEATURES

The vertically lined lens allows a perfect light distribution over 360°. Available with 2 different lens types, according to the final application

### allCOLOR STANDARD USE

Colored lens with colored light source. The use of a colored lens with the same color of light source allows optimization of the emission frequency producing a rich intense light output

### allCLEAR USE IN VERY BRIGHT ENVIRONMENTS

Clear lens with colored light source. In very bright environments it is possible that the ambient brightness lights up the module when it is switched OFF creating problems in distinguishing between the ON and OFF state of the stacklight (phantom effect). The clear lens module allows clear distinction between the ON and OFF status of the stacklight



## CERTIFICATIONS



**miniTWS** - Integrated LED steady/flashing light module

		allCOLOR	allCLEAR	allCOLOR	allCLEAR	allCOLOR	allCLEAR						
<b>GY</b>	24V ACDC	31501	33241	31502	33242	31503	33243	31504	33244	31505	33245	31506	33246
	110V AC	31511	33251	31512	33252	31513	33253	31514	33254	31515	33255	31516	33256
	240V AC	31521	33261	31522	33262	31523	33263	31524	33264	31525	33265	31526	33266
<b>BK</b>	24V ACDC	31541	33301	31542	33302	31543	33303	31544	33304	31545	33305	31546	33306
	110V AC	31551	33311	31552	33312	31553	33313	31554	33314	31555	33315	31556	33316
	240V AC	31561	33321	31562	33322	31563	33323	31564	33324	31565	33325	31566	33326
<b>WH</b>	24V ACDC	33331	33361	33332	33362	33333	33363	33334	33364	33335	33365	33336	33366
	110V AC	33351	33371	33352	33372	33353	33373	33354	33374	33355	33375	33356	33376
	240V AC	33391	33381	33392	33382	33393	33383	33394	33384	33395	33385	33396	33386

**babyTWS** - Integrated LED steady light module

	allCOLOR	allCLEAR	allCOLOR	allCLEAR	allCOLOR	allCLEAR						
24V ACDC	36451	33271	36452	33272	36453	33273	36454	33274	36455	33275	36456	33276

**microTWS** - Integrated LED steady light module

	allCOLOR	allCLEAR	allCOLOR	allCLEAR	allCOLOR	allCLEAR						
24V ACDC	31571	33281	31572	33282	31573	33283	31574	33284	31575	33285	31576	33286

**nanoTWS** - Integrated LED steady light module

	allCOLOR	allCLEAR	allCOLOR	allCLEAR	allCOLOR	allCLEAR						
24V ACDC	31581	33291	31582	33292	31583	33293	31584	33294	31585	33295	31586	33296

**SOUNDERS**

		WH	GY	BK
mini <b>TWS</b>	24V ACDC	33327	31531	31534
	110V AC	33328	31532	31535
	240V AC	33329	31533	31536
baby <b>TWS</b>	24V ACDC	36464	36461	36462
micro <b>TWS</b>	24V ACDC	31568	31538	31539

**ACCESSORIES**

	WH	GY	BK
<b>BP1</b>	27708	27762	27693
<b>BP2</b>	-	27763	27694
<b>SB</b>	33359	33357	33358
<b>BS</b>	-	27760	27691
<b>KIT</b>	-	27764	27695
<b>PR</b>	-	27761	27692
<b>M16</b>	-	27777	27778
<b>FJ</b>	33349	33347	33348
<b>KIT SS L10</b>	27765	27845	
<b>KIT SS L20</b>	27766	27846	
<b>KIT SS L40</b>	27767	27847	

**BASES**

	WH	GY	BK
mini <b>TWS</b>	33330	31500	31508
baby <b>TWS</b>	36463	36450	36449
micro <b>TWS</b>	31567	31537	31540
nano <b>TWS</b>	31589	31587	31588

# SPARE BULBS



**BA 15d** **5W**

box 1x25 pcs	single box	box 25 pcs
<b>12V</b> 70970	<b>12V</b> 70941	<b>12V</b> 27780
<b>24V</b> 70971	<b>24V</b> 70942	<b>24V</b> 27781
<b>48V</b> 70972	<b>48V</b> 70943	<b>48V</b> 27782
<b>110V</b> 70973	<b>110V</b> 70944	<b>110V</b> 27783
<b>240V</b> 70974	<b>240V</b> 70945	<b>240V</b> 27784



**XENON** **2J**

71634



**LED 4.5.4 WO - BA 15d**

<b>12V ACDC</b>	40931	40932	40933	40934	40935	40936
<b>24V ACDC</b>	40941	40942	40943	40944	40945	40946
<b>110V AC</b>	40951	40952	40953	40954	40955	40956
<b>240V AC</b>	40961	40962	40963	40964	40965	40966



<b>PR</b>	27761	27692
<b>KIT</b>	27764	27695
<b>KIT SS L10</b>	27765	27845
<b>KIT SS L20</b>	27766	27846
<b>KIT SS L40</b>	27767	27847

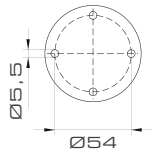


<b>PR</b>	27761	27692	-
<b>BP1</b>	27762	27693	27708
<b>BP2</b>	27763	27694	-



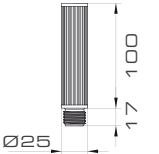
## BS

Flat base for surface mount



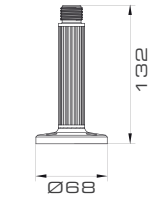
## PR

10cm extension



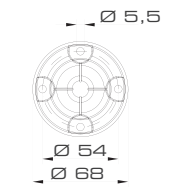
## KIT

Flat base for surface mount with 10cm extension



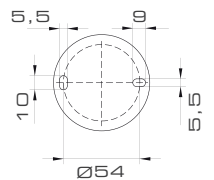
## KIT SS

Flat base for surface mount with 10cm stainless steel extension (also available in 20 and 40cm sizes)



## BP1

Wall base for side mount



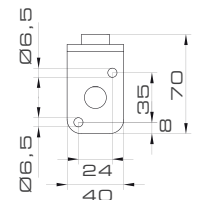
## BP2

Wall base for side mount of 2 towers



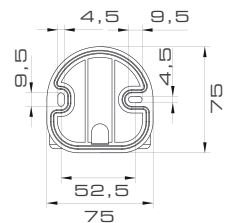
## SB

Stainless steel bracket with 1/2" NPT cable gland



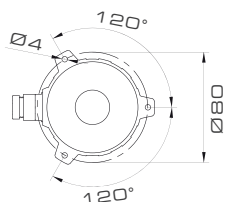
## FJ

Folding joint for mounting on slanting surfaces (also suitable for bending the tower to the side)



## M16

Flat base with M16 cable gland for surface mount



# RANGE LUXOR





# LUXOR

## INTRODUCTION

**T**he **LUXOR** stacklights have been developed to meet modern requirements in industrial signaling. It is the only stacklight on the market with a diameter of 136mm (**LUXOR 4**) and 90mm (**LUXOR 3**) and, thanks to the numerous configurations offered solves all types of installation solutions in larger-size industrial sites and machinery.

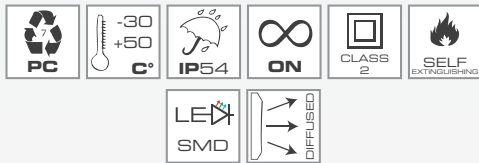
# LUXOR



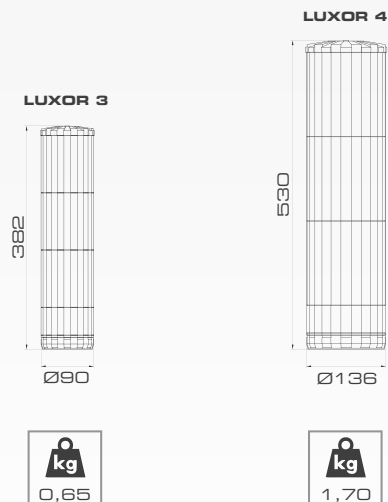


LUXOR 3

LUXOR 4



## DRAWINGS, DIMENSIONS AND WEIGHTS



## LUXOR LED | PART NO

LUXOR 3	24V ACDC	16693
LUXOR 4	24V ACDC	16663

More configurations upon request:  
automax@sirena.it

## LUXOR LED

Large size 3 stage stacklight (green, amber, red) available in 2 diameters: LUXOR 4 (136mm) e LUXOR 3 (90mm).

An integrated LED luminous source allows maximizing color emission frequency guaranteeing an outstanding color output.

Thanks to its larger size, LUXOR is particularly indicated for larger scale automated installation.

Configured with a flat mounting base, can also be available with a lateral base for side/wall installations.

### NOTE

LUXOR is also available with traditional incandescent filament bulbs (steady and flashing), with built-in rotating beacon, with Xenon discharge lamps, with a sounder module and in a range of voltages from 12V to 240V.

Furthermore, LUXOR can be configured with a wide selection of accessories to facilitate all mounting scenarios. Please contact us for further information: automax@sirena.it

## KEY CHARACTERISTICS

**LIGHT EFFECTS**  
STEADY

**VOLTAGES**  
24V ACDC +/-10%

**PROTECTION GRADE**  
IP54

**OPERATING TEMPERATURE**  
-30/+50 C°

## MECHANICAL FEATURES

Self extinguishing PC domes with high impact resistance. Body in fiber glass reinforced nylon (PA66 FV30)

## OPTICAL FEATURES

The vertically lined lens allows a perfect light distribution over 360°

### allCOLOR STANDARD USE

Colored lens with colored light source. The use of a colored lens with the same color of light source allows optimization of the emission frequency producing a rich intense light output

## CERTIFICATIONS



# AUTOMAX

## CERTIFICATIONS

 The **ELYPS**, **TWS** and **LUXOR** ranges are certified according to CE (EN60598-1, EN61000-6-3, EN61000-6-2) standards

 The **TWS** range also achieved GOST certification and can be used in the CIS region according to local standards

 **TWS** HD (to be used in conjunction with the **TWS** range) has been certified according to IP69K protection grade standards by TÜV SÜD



**TWS** and **ELYPS** have achieved UL certification for US and Canada with protection grade TYPE 4X (**TWS**), the highest in its category.

### UL LISTED TO US AND CANADIAN SAFETY STANDARDS

MODEL	ELECTRICAL RATING	MAXIMUM AMBIENT TEMPERATURE ALLOWED
TWS BC	Max 240V ACDC	60° C
TWS STEADY	12V ACDC	59° C
	24V ACDC	60° C
	48V ACDC	57° C
	110, 240V ACDC	60° C
TWS FLASHING	12/48V DC	60° C
	24/48V AC	60° C
	110, 240V AC	54° C
TWS X	24V ACDC	41° C
	110, 240V AC	43° C
TWS LED	24V ACDC	60° C
	110, 240V AC	60° C
TWS S	12/24V ACDC	60° C
TWS RGA	12/24V ACDC	60° C
TWS PZO	12/48V DCAC	60° C
	110/240V AC	56° C
TWS MDA	12/24V ACDC	60° C
	48V AC	55° C
	110, 240V AC	50° C
TWS A+	12/24V ACDC	60° C
	110/240V AC	60° C
miniTWS	24V ACDC	50° C
miniTWS BC	Max 240V ACDC	50° C
miniTWS A	24V ACDC	50° C
babyTWS	24V ACDC	50° C
babyTWS BC	Max 24V ACDC	50° C
babyTWS A	24V ACDC	50° C
microTWS	24V ACDC	50° C
microTWS BC	Max 24V ACDC	50° C
microTWS A	24V ACDC	50° C
nanoTWS	24V ACDC	50° C
nanoTWS BC	Max 24V ACDC	50° C

# AUTOMAX

## PART NUMBER INDEX

P/N	DESCRIPTION	PAGE	P/N	DESCRIPTION	PAGE	P/N	DESCRIPTION	PAGE
16663	LX4 071F SMD RED/AMB/GRE V24DAC	51	27686	TWS XENON CLR V240AC	BK 33	27761	TWS EXTENSION L10 (PR)	GY 47
16693	LX3 071F SMD RED/AMB/GRE V24DAC	51	27690	TWS WIRING BASE	BK 28	27762	TWS WALL MOUNT (BP1)	GY 47
21437	B4D TWS	36	27691	TWS BASE FOOT (BS)	BK 47	27763	TWS DOUBLE WALL MOUNT (BP2)	GY 47
27602	TWS HD SS ENCLOSURE (2)	35	27692	TWS EXTENSION L10	BK 47	27764	TWS EXTENDED FOOT L10 (KIT)	GY 47
27603	TWS HD AL ENCLOSURE (2)	35	27693	TWS WALL MOUNT (BP1)	BK 47	27765	TWS KIT SS L10	GY 47
27606	TWS HD SS ENCLOSURE (4)	35	27694	TWS DOUBLE WALL MOUNT (BP2)	BK 47	27766	TWS KIT SS L20	GY 47
27607	TWS HD AL ENCLOSURE (4)	35	27695	TWS EXTENDED FOOT L10	BK 47	27767	TWS KIT SS L40	GY 47
27625	TWS SOUNDER PZ V12/48DAC	BK 34	27700	TWS WIRING BASE	GY 28	27777	TWS M16 CONNECTION BOX (M16)	GY 47
27628	TWS SOUNDER PZ V110/240ACBK	34	27701	TWS STEADY BLU V12/240DACGY	32	27778	TWS M16 CONNECTION BOX (M16)	BK 47
27631	TWS STEADY BLU V12/240DACBK	32	27702	TWS STEADY AMB V12/240DAC	GY32	27780	BULB (25PCS) BA 15D 5W V12	46
27632	TWS STEADY AMB V12/240DACBK	32	27703	TWS STEADY RED V12/240DACGY	32	27781	BULB (25PCS) BA 15D 5W V24	46
27633	TWS STEADY RED V12/240DACBK	32	27704	TWS STEADY GRE V12/240DACGY	32	27782	BULB (25PCS) BA 15D 5W V48	46
27634	TWS STEADY GRE V12/240DACBK	32	27705	TWS STEADY YEL V12/240DACGY	32	27783	BULB (25PCS) BA 15D 5W V110	46
27635	TWS STEADY YEL V12/240DACBK	32	27706	TWS STEADY CLR V12/240DACGY	32	27784	BULB (25PCS) BA 15D 5W V240	46
27636	TWS STEADY CLR V12/240DACBK	32	27708	TWS WALL MOUNT (BP1)	WH47	27790	TWS SOUNDER MDA V12/24DAC	GY 34
27641	TWS FLASH BLU V12/48DC	BK 32	27711	TWS FLASH BLU V12/48DC	GY 32	27791	TWS SOUNDER MDA V48AC	GY 34
27642	TWS FLASH AMB V12/48DC	BK 32	27712	TWS FLASH AMB V12/48DC	GY 32	27792	TWS SOUNDER MDA V110AC	GY 34
27643	TWS FLASH RED V12/48DC	BK 32	27713	TWS FLASH RED V12/48DC	GY 32	27793	TWS SOUNDER MDA V240AC	GY 34
27644	TWS FLASH GRE V12/48DC	BK 32	27714	TWS FLASH GRE V12/48DC	GY 32	27794	TWS SOUNDER MDA V12/24DAC	BK 34
27645	TWS FLASH YEL V12/48DC	BK 32	27715	TWS FLASH YEL V12/48DC	GY 32	27795	TWS SOUNDER MDA V48AC	BK 34
27646	TWS FLASH CLR V12/48DC	BK 32	27716	TWS FLASH CLR V12/48DC	GY 32	27796	TWS SOUNDER MDA V110AC	BK 34
27651	TWS FLASH BLU V24/240AC	BK 32	27718	TWS SOUNDER PZ V12/48DAC	GY 34	27797	TWS SOUNDER MDA V240AC	BK 34
27652	TWS FLASH AMB V24/240AC	BK 32	27719	TWS SOUNDER PZ V110/240ACGY	34	27840	TWS HD AL ENCLOSURE (3)	35
27653	TWS FLASH RED V24/240AC	BK 32	27721	TWS FLASH BLU V24/240AC	GY 32	27841	TWS HD AL FLAT MOUNTER	35
27654	TWS FLASH GRE V24/240AC	BK 32	27722	TWS FLASH AMB V24/240AC	GY 32	27842	TWS HD AL POLE MOUNTER	35
27655	TWS FLASH YEL V24/240AC	BK 32	27723	TWS FLASH RED V24/240AC	GY 32	27843	TWS HD AL SIDE MOUNTER	35
27656	TWS FLASH CLR V24/240AC	BK 32	27724	TWS FLASH GRE V24/240AC	GY 32	27845	TWS KIT SS L10	BK 47
27661	TWS XENON BLU V24DC	BK 33	27725	TWS FLASH YEL V24/240AC	GY 32	27846	TWS KIT SS L20	BK 47
27662	TWS XENON AMB V24DC	BK 33	27726	TWS FLASH CLR V24/240AC	GY 32	27847	TWS KIT SS L40	BK 47
27663	TWS XENON RED V24DC	BK 33	27731	TWS XENON BLU V24DC	GY 33	31500	MINITWS WIRING BASE	GY 39
27664	TWS XENON GRE V24DC	BK 33	27732	TWS XENON AMB V24DC	GY 33	31501	MINITWS BLU S/F ALLCOLOR V24DAC	GY 39
27665	TWS XENON YEL V24DC	BK 33	27733	TWS XENON RED V24DC	GY 33	31502	MINITWS AMB S/F ALLCOLOR V24DAC	GY 39
27666	TWS XENON CLR V24DC	BK 33	27734	TWS XENON GRE V24DC	GY 33	31503	MINITWS RED S/F ALLCOLOR V24DAC	GY 39
27671	TWS XENON BLU V110AC	BK 33	27735	TWS XENON YEL V24DC	GY 33	31504	MINITWS GRE S/F ALLCOLOR V24DAC	GY 39
27672	TWS XENON AMB V110AC	BK 33	27736	TWS XENON CLR V24DC	GY 33	31505	MINITWS YEL S/F ALLCOLOR V24DAC	GY 39
27673	TWS XENON RED V110AC	BK 33	27741	TWS XENON BLU V110AC	GY 33	31506	MINITWS CLR S/F ALLCOLOR V24DAC	GY 39
27674	TWS XENON GRE V110AC	BK 33	27742	TWS XENON AMB V110AC	GY 33	31508	MINITWS WIRING BASE	BK 39
27675	TWS XENON YEL V110AC	BK 33	27743	TWS XENON RED V110AC	GY 33	31511	MINITWS BLU S/F ALLCOLOR V110AC	GY 39
27676	TWS XENON CLR V110AC	BK 33	27744	TWS XENON GRE V110AC	GY 33	31512	MINITWS AMB S/F ALLCOLOR V110AC	GY 39
27677	TWS HD SS ENCLOSURE (3)	35	27745	TWS XENON YEL V110AC	GY 33	31513	MINITWS RED S/F ALLCOLOR V110AC	GY 39
27678	TWS HD SS POLE MOUNTER	35	27746	TWS XENON CLR V110AC	GY 33	31514	MINITWS GRE S/F ALLCOLOR V110AC	GY 39
27679	TWS HD SS FLAT MOUNTER	35	27751	TWS XENON BLU V240AC	GY 33	31515	MINITWS YEL S/F ALLCOLOR V110AC	GY 39
27680	TWS HD SS SIDE MOUNTER	35	27752	TWS XENON AMB V240AC	GY 33	31516	MINITWS CLR S/F ALLCOLOR V110AC	GY 39
27681	TWS XENON BLU V240AC	BK 33	27753	TWS XENON RED V240AC	GY 33	31521	MINITWS BLU S/F ALLCOLOR V240AC	GY 39
27682	TWS XENON AMB V240AC	BK 33	27754	TWS XENON GRE V240AC	GY 33	31522	MINITWS AMB S/F ALLCOLOR V240AC	GY 39
27683	TWS XENON RED V240AC	BK 33	27755	TWS XENON YEL V240AC	GY 33	31523	MINITWS RED S/F ALLCOLOR V240AC	GY 39
27684	TWS XENON GRE V240AC	BK 33	27756	TWS XENON CLR V240AC	GY 33	31524	MINITWS GRE S/F ALLCOLOR V240AC	GY 39
27685	TWS XENON YEL V240AC	BK 33	27760	TWS BASE FOOT (BS)	GY 47	31525	MINITWS YEL S/F ALLCOLOR V240AC	GY 39

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31526	MINITWS CLR S/F ALLCOLOR	V240AC	GY 39	32221	TWS LED BLU S PROXIMITY	V240AC	GY 29	32315	TWS LED YEL M PROXIMITY	V240AC	BK 29
31531	MINITWS SOUNDER	V240AC	GY 39	32222	TWS LED AMB S PROXIMITY	V240AC	GY 29	32316	TWS LED CLR M PROXIMITY	V240AC	BK 29
31532	MINITWS SOUNDER	V110AC	GY 39	32223	TWS LED RED S PROXIMITY	V240AC	GY 29	32317	ELYPS WM LT	V12/24DAC	GY 14
31533	MINITWS SOUNDER	V240AC	GY 39	32224	TWS LED GRE S PROXIMITY	V240AC	GY 29	32318	ELYPS WM LT	V12/24DAC	BK 14
31534	MINITWS SOUNDER	V240AC	BK 39	32225	TWS LED YEL S PROXIMITY	V240AC	GY 29	32319	ELYPS WM LT	V12/24DAC	WH 14
31535	MINITWS SOUNDER	V110AC	BK 39	32226	TWS LED CLR S PROXIMITY	V240AC	GY 29	32320	ELYPS WM HT	V120/240ACGY	14
31536	MINITWS SOUNDER	V240AC	BK 39	32231	TWS LED BLU S PROXIMITY	V240AC	BK 29	32321	ELYPS WM HT	V120/240ACBK	14
31537	MICROTWS WIRING BASE		GY 43	32232	TWS LED AMB S PROXIMITY	V240AC	BK 29	32322	ELYPS WM HT	V120/240AC	WH 14
31538	MICROTWS SOUNDER		GY 43	32233	TWS LED RED S PROXIMITY	V240AC	BK 29	32323	ELYPS WM MLT LT	V12/24DAC	GY 14
31539	MICROTWS SOUNDER		BK 43	32234	TWS LED GRE S PROXIMITY	V240AC	BK 29	32324	ELYPS WM MLT LT	V12/24DAC	BK 14
31540	MICROTWS WIRING BASE		BK 43	32235	TWS LED YEL S PROXIMITY	V240AC	BK 29	32325	ELYPS WM MLT LT	V12/24DAC	WH 14
31541	MINITWS BLU S/F ALLCOLOR	V240AC	BK 39	32236	TWS LED CLR S PROXIMITY	V240AC	BK 29	32326	ELYPS WM MLT HT	V120/240ACGY	14
31542	MINITWS AMB S/F ALLCOLOR	V240AC	BK 39	32241	TWS LED BLU S PROXIMITY	V110AC	BK 29	32327	ELYPS WM MLT HT	V120/240ACBK	14
31543	MINITWS RED S/F ALLCOLOR	V240AC	BK 39	32242	TWS LED AMB S PROXIMITY	V110AC	BK 29	32328	ELYPS WM MLT HT	V120/240AC	WH 14
31544	MINITWS GRE S/F ALLCOLOR	V240AC	BK 39	32243	TWS LED RED S PROXIMITY	V110AC	BK 29	32331	ELYPS LM BLUE ALLCOLOR		15
31545	MINITWS YEL S/F ALLCOLOR	V240AC	BK 39	32244	TWS LED GRE S PROXIMITY	V110AC	BK 29	32332	ELYPS LM AMBER ALLCOLOR		15
31546	MINITWS CLR S/F ALLCOLOR	V240AC	BK 39	32245	TWS LED YEL S PROXIMITY	V110AC	BK 29	32333	ELYPS LM RED ALLCOLOR		15
31551	MINITWS BLU S/F ALLCOLOR	V110AC	BK 39	32246	TWS LED CLR S PROXIMITY	V110AC	BK 29	32334	ELYPS LM GREEN ALLCOLOR		15
31552	MINITWS AMB S/F ALLCOLOR	V110AC	BK 39	32251	TWS LED BLU S PROXIMITY	V240AC	BK 29	32335	ELYPS LM YELLOW ALLCOLOR		15
31553	MINITWS RED S/F ALLCOLOR	V110AC	BK 39	32252	TWS LED AMB S PROXIMITY	V240AC	BK 29	32336	ELYPS LM CLEAR ALLCOLOR		15
31554	MINITWS GRE S/F ALLCOLOR	V110AC	BK 39	32253	TWS LED RED S PROXIMITY	V240AC	BK 29	32337	ELYPS AM		GY 19
31555	MINITWS YEL S/F ALLCOLOR	V110AC	BK 39	32254	TWS LED GRE S PROXIMITY	V240AC	BK 29	32338	ELYPS AM		BK 19
31556	MINITWS CLR S/F ALLCOLOR	V110AC	BK 39	32255	TWS LED YEL S PROXIMITY	V240AC	BK 29	32339	ELYPS AM		WH 19
31561	MINITWS BLU S/F ALLCOLOR	V240AC	BK 39	32256	TWS LED CLR S PROXIMITY	V240AC	BK 29	32341	ELYPS LM BLUE ALLCLEAR		15
31562	MINITWS AMB S/F ALLCOLOR	V240AC	BK 39	32261	TWS LED BLU M PROXIMITY	V240AC	GY 29	32342	ELYPS LM AMBER ALLCLEAR		15
31563	MINITWS RED S/F ALLCOLOR	V240AC	BK 39	32262	TWS LED AMB M PROXIMITY	V240AC	GY 29	32343	ELYPS LM RED ALLCLEAR		15
31564	MINITWS GRE S/F ALLCOLOR	V240AC	BK 39	32263	TWS LED RED M PROXIMITY	V240AC	GY 29	32344	ELYPS LM GREEN ALLCLEAR		15
31565	MINITWS YEL S/F ALLCOLOR	V240AC	BK 39	32264	TWS LED GRE M PROXIMITY	V240AC	GY 29	32345	ELYPS LM YELLOW ALLCLEAR		15
31566	MINITWS CLR S/F ALLCOLOR	V240AC	BK 39	32265	TWS LED YEL M PROXIMITY	V240AC	GY 29	32346	ELYPS LM CLEAR ALLCLEAR		15
31567	MICROTWS WIRING BASE		WH 43	32266	TWS LED CLR M PROXIMITY	V240AC	GY 29	32347	ELYPS AM S		GY 19
31568	MICROTWS SOUNDER		WH 43	32271	TWS LED BLU M PROXIMITY	V110AC	GY 29	32348	ELYPS AM S		BK 19
31571	MICROTWS BLU S ALLCOLOR	V240AC	43	32272	TWS LED AMB M PROXIMITY	V110AC	GY 29	32349	ELYPS AM S		WH 19
31572	MICROTWS AMB S ALLCOLOR	V240AC	43	32273	TWS LED RED M PROXIMITY	V110AC	GY 29	32351	ELYPS LM X MLT BLUE		18
31573	MICROTWS RED S ALLCOLOR	V240AC	43	32274	TWS LED GRE M PROXIMITY	V110AC	GY 29	32352	ELYPS LM X MLT AMBER		18
31574	MICROTWS GRE S ALLCOLOR	V240AC	43	32275	TWS LED YEL M PROXIMITY	V110AC	GY 29	32353	ELYPS LM X MLT RED		18
31575	MICROTWS YEL S ALLCOLOR	V240AC	43	32276	TWS LED CLR M PROXIMITY	V110AC	GY 29	32354	ELYPS LM X MLT GREEN		18
31576	MICROTWS CLR S ALLCOLOR	V240AC	43	32281	TWS LED BLU M PROXIMITY	V240AC	GY 29	32355	ELYPS LM X MLT YELLOW		18
31581	NANOTWS BLU S ALLCOLOR	V240AC	45	32282	TWS LED AMB M PROXIMITY	V240AC	GY 29	32356	ELYPS LM X MLT CLEAR		18
31582	NANOTWS AMB S ALLCOLOR	V240AC	45	32283	TWS LED RED M PROXIMITY	V240AC	GY 29	32357	ELYPS MB FLAT BASE		GY 20
31583	NANOTWS RED S ALLCOLOR	V240AC	45	32284	TWS LED GRE M PROXIMITY	V240AC	GY 29	32358	ELYPS MB FLAT BASE		BK 20
31584	NANOTWS GRE S ALLCOLOR	V240AC	45	32285	TWS LED YEL M PROXIMITY	V240AC	GY 29	32359	ELYPS MB FLAT BASE		WH 20
31585	NANOTWS YEL S ALLCOLOR	V240AC	45	32286	TWS LED CLR M PROXIMITY	V240AC	GY 29	32367	ELYPS MB WALL BASE		GY 20
31586	NANOTWS CLR S ALLCOLOR	V240AC	45	32291	TWS LED BLU M PROXIMITY	V240AC	BK 29	32368	ELYPS MB WALL BASE		BK 20
31587	NANOTWS WIRING BASE		GY 45	32292	TWS LED AMB M PROXIMITY	V240AC	BK 29	32369	ELYPS MB WALL BASE		WH 20
31588	NANOTWS WIRING BASE		BK 45	32293	TWS LED RED M PROXIMITY	V240AC	BK 29	32371	ELYPS LM S BLUE ALLCOLOR		16
31589	NANOTWS WIRING BASE		WH 45	32294	TWS LED GRE M PROXIMITY	V240AC	BK 29	32372	ELYPS LM S AMBER ALLCOLOR		16
32201	TWS LED BLU S PROXIMITY	V240AC	GY 29	32295	TWS LED YEL M PROXIMITY	V240AC	BK 29	32373	ELYPS LM S RED ALLCOLOR		16
32202	TWS LED AMB S PROXIMITY	V240AC	GY 29	32296	TWS LED CLR M PROXIMITY	V240AC	BK 29	32374	ELYPS LM S GREEN ALLCOLOR		16
32203	TWS LED RED S PROXIMITY	V240AC	GY 29	32301	TWS LED BLU M PROXIMITY	V110AC	BK 29	32375	ELYPS LM S YELLOW ALLCOLOR		16
32204	TWS LED GRE S PROXIMITY	V240AC	GY 29	32302	TWS LED AMB M PROXIMITY	V110AC	BK 29	32376	ELYPS LM S CLEAR ALLCOLOR		16
32205	TWS LED YEL S PROXIMITY	V240AC	GY 29	32303	TWS LED RED M PROXIMITY	V110AC	BK 29	32377	ELYPS MB EXTENDED BASE		GY 20
32206	TWS LED CLR S PROXIMITY	V240AC	GY 29	32304	TWS LED GRE M PROXIMITY	V110AC	BK 29	32378	ELYPS MB EXTENDED BASE		BK 20
32211	TWS LED BLU S PROXIMITY	V110AC	GY 29	32305	TWS LED YEL M PROXIMITY	V110AC	BK 29	32379	ELYPS MB EXTENDED BASE		WH 20
32212	TWS LED AMB S PROXIMITY	V110AC	GY 29	32306	TWS LED CLR M PROXIMITY	V110AC	BK 29	32381	ELYPS LM S BLUE ALLCLEAR		16
32213	TWS LED RED S PROXIMITY	V110AC	GY 29	32311	TWS LED BLU M PROXIMITY	V240AC	BK 29	32382	ELYPS LM S AMB ALLCLEAR		16
32214	TWS LED GRE S PROXIMITY	V110AC	GY 29	32312	TWS LED AMB M PROXIMITY	V240AC	BK 29	32383	ELYPS LM S RED ALLCLEAR		16
32215	TWS LED YEL S PROXIMITY	V110AC	GY 29	32313	TWS LED RED M PROXIMITY	V240AC	BK 29	32384	ELYPS LM S GRE ALLCLEAR		16
32216	TWS LED CLR S PROXIMITY	V110AC	GY 29	32314	TWS LED GRE M PROXIMITY	V240AC	BK 29	32385	ELYPS LM S YELALLCLEAR		16

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32386	ELYPS LM S CLEAR ALLCLEAR	16	33161	TWS LED BLU S ALLCLEAR	V110AC BK 29	33265	MINITWS YEL S/F ALLCLEAR	V240AC GY 39
32387	ELYPS MB POLE BASE	GY 20	33162	TWS LED A/Y S ALLCLEAR	V110AC BK 29	33266	MINITWS CLR S/F ALLCLEAR	V240AC GY 39
32388	ELYPS MB POLE BASE	BK 20	33163	TWS LED RED S ALLCLEAR	V110AC BK 29	33271	BABYTWS BLU S ALLCLEAR	V24DAC 41
32389	ELYPS MB POLE BASE	WH 20	33164	TWS LED GRE S ALLCLEAR	V110AC BK 29	33272	BABYTWS AMB S ALLCLEAR	V24DAC 41
32391	ELYPS LM S MLT BLU ALLCOLOR	17	33165	TWS LED YEL S ALLCLEAR	V110AC BK 29	33273	BABYTWS RED S ALLCLEAR	V24DAC 41
32392	ELYPS LM S MLT AMB ALLCOLOR	17	33166	TWS LED CLR S ALLCLEAR	V110AC BK 29	33274	BABYTWS GRE S ALLCLEAR	V24DAC 41
32393	ELYPS LM S MLT RED ALLCOLOR	17	33171	TWS LED BLU S ALLCLEAR	V240AC BK 29	33275	BABYTWS YEL S ALLCLEAR	V24DAC 41
32394	ELYPS LM S MLT GRE ALLCOLOR	17	33172	TWS LED A/Y S ALLCLEAR	V240AC BK 29	33276	BABYTWS CLR S ALLCLEAR	V24DAC 41
32395	ELYPS LM S MLT YEL ALLCOLOR	17	33173	TWS LED RED S ALLCLEAR	V240AC BK 29	33281	MICROTWS BLU S ALLCLEAR	V24DAC 43
32396	ELYPS LM S MLT CLR ALLCOLOR	17	33174	TWS LED GRE S ALLCLEAR	V240AC BK 29	33282	MICROTWS AMB S ALLCLEAR	V24DAC 43
32401	ELYPS LM S MLT BLU ALLCLEAR	17	33175	TWS LED YEL S ALLCLEAR	V240AC BK 29	33283	MICROTWS RED S ALLCLEAR	V24DAC 43
32402	ELYPS LM S MLT AMB ALLCLEAR	17	33176	TWS LED CLR S ALLCLEAR	V240AC BK 29	33284	MICROTWS GRE S ALLCLEAR	V24DAC 43
32403	ELYPS LM S MLT RED ALLCLEAR	17	33181	TWS LED BLU M ALLCLEAR	V24DAC GY 29	33285	MICROTWS YEL S ALLCLEAR	V24DAC 43
32404	ELYPS LM S MLT GRE ALLCLEAR	17	33182	TWS LED A/Y M ALLCLEAR	V24DAC GY 29	33286	MICROTWS CLR S ALLCLEAR	V24DAC 43
32405	ELYPS LM S MLT YEL ALLCLEAR	17	33183	TWS LED RED M ALLCLEAR	V24DAC GY 29	33291	NANOTWS BLU S ALLCLEAR	V24DAC 45
32406	ELYPS LM S MLT CLR ALLCLEAR	17	33184	TWS LED GRE M ALLCLEAR	V24DAC GY 29	33292	NANOTWS AMB S ALLCLEAR	V24DAC 45
32411	ELYPS LM BLUE PROXIMITY	15	33186	TWS LED CLR M ALLCLEAR	V24DAC GY 29	33293	NANOTWS RED S ALLCLEAR	V24DAC 45
32412	ELYPS LM AMBER PROXIMITY	15	33191	TWS LED BLU M ALLCLEAR	V110AC GY 29	33294	NANOTWS GRE S ALLCLEAR	V24DAC 45
32413	ELYPS LM RED PROXIMITY	15	33192	TWS LED A/Y M ALLCLEAR	V110AC GY 29	33295	NANOTWS YEL S ALLCLEAR	V24DAC 45
32414	ELYPS LM GREEN PROXIMITY	15	33193	TWS LED RED M ALLCLEAR	V110AC GY 29	33296	NANOTWS CLR S ALLCLEAR	V24DAC 45
32415	ELYPS LM YELLOW PROXIMITY	15	33194	TWS LED GRE M ALLCLEAR	V110AC GY 29	33301	MINITWS BLU S/F ALLCLEAR	V24DAC BK 39
32416	ELYPS LM CLEAR PROXIMITY	15	33196	TWS LED CLR M ALLCLEAR	V110AC GY 29	33302	MINITWS AMB S/F ALLCLEAR	V24DAC BK 39
32420	ELYPS MB TUBE BASE L100 SS	GY 20	33201	TWS LED BLU M ALLCLEAR	V240AC GY 29	33303	MINITWS RED S/F ALLCLEAR	V24DAC BK 39
32421	ELYPS MB TUBE BASE L200 SS	GY 20	33202	TWS LED A/Y M ALLCLEAR	V240AC GY 29	33304	MINITWS GRE S/F ALLCLEAR	V24DAC BK 39
32422	ELYPS MB TUBE BASE L300 SS	GY 20	33203	TWS LED RED M ALLCLEAR	V240AC GY 29	33305	MINITWS YEL S/F ALLCLEAR	V24DAC BK 39
32423	ELYPS MB TUBE BASE L400 SS	GY 20	33204	TWS LED GRE M ALLCLEAR	V240AC GY 29	33306	MINITWS CLR S/F ALLCLEAR	V24DAC BK 39
32424	ELYPS MB TUBE BASE L100 SS	BK 20	33206	TWS LED CLR M ALLCLEAR	V240AC GY 29	33311	MINITWS BLU S/F ALLCLEAR	V110AC BK 39
32425	ELYPS MB TUBE BASE L200 SS	BK 20	33211	TWS LED BLU M ALLCLEAR	V24DAC BK 29	33312	MINITWS AMB S/F ALLCLEAR	V110AC BK 39
32426	ELYPS MB TUBE BASE L300 SS	BK 20	33212	TWS LED A/Y M ALLCLEAR	V24DAC BK 29	33313	MINITWS RED S/F ALLCLEAR	V110AC BK 39
32427	ELYPS MB TUBE BASE L400 SS	BK 20	33213	TWS LED RED M ALLCLEAR	V24DAC BK 29	33314	MINITWS GRE S/F ALLCLEAR	V110AC BK 39
32428	ELYPS MB TUBE BASE L100 SS	WH 20	33214	TWS LED GRE M ALLCLEAR	V24DAC BK 29	33315	MINITWS YEL S/F ALLCLEAR	V110AC BK 39
32429	ELYPS MB TUBE BASE L200 SS	WH 20	33216	TWS LED CLR M ALLCLEAR	V24DAC BK 29	33316	MINITWS CLR S/F ALLCLEAR	V110AC BK 39
32430	ELYPS MB TUBE BASE L300 SS	WH 20	33221	TWS LED BLU M ALLCLEAR	V110AC BK 29	33321	MINITWS BLU S/F ALLCLEAR	V240AC BK 39
32431	ELYPS MB TUBE BASE L400 SS	WH 20	33222	TWS LED A/Y M ALLCLEAR	V110AC BK 29	33322	MINITWS AMB S/F ALLCLEAR	V240AC BK 39
33121	TWS LED BLU S ALLCLEAR	V24DAC GY 29	33223	TWS LED RED M ALLCLEAR	V110AC BK 29	33323	MINITWS RED S/F ALLCLEAR	V240AC BK 39
33122	TWS LED A/Y S ALLCLEAR	V24DAC GY 29	33224	TWS LED GRE M ALLCLEAR	V110AC BK 29	33324	MINITWS GRE S/F ALLCLEAR	V240AC BK 39
33123	TWS LED RED S ALLCLEAR	V24DAC GY 29	33226	TWS LED CLR M ALLCLEAR	V110AC BK 29	33325	MINITWS YEL S/F ALLCLEAR	V240AC BK 39
33124	TWS LED GRE S ALLCLEAR	V24DAC GY 29	33231	TWS LED BLU M ALLCLEAR	V240AC BK 29	33326	MINITWS CLR S/F ALLCLEAR	V240AC BK 39
33125	TWS LED YEL S ALLCLEAR	V24DAC GY 29	33232	TWS LED A/Y M ALLCLEAR	V240AC BK 29	33327	MINITWS SOUNDER	V24DAC WH 39
33126	TWS LED CLR S ALLCLEAR	V24DAC GY 29	33233	TWS LED RED M ALLCLEAR	V240AC BK 29	33328	MINITWS SOUNDER	V110AC WH 39
33131	TWS LED BLU S ALLCLEAR	V110AC GY 29	33234	TWS LED GRE M ALLCLEAR	V240AC BK 29	33329	MINITWS SOUNDER	V240AC WH 39
33132	TWS LED A/Y S ALLCLEAR	V110AC GY 29	33236	TWS LED CLR M ALLCLEAR	V240AC BK 29	33330	MINITWS WIRING BASE	WH 39
33133	TWS LED RED S ALLCLEAR	V110AC GY 29	33241	MINITWS BLU S/F ALLCLEAR	V24DAC GY 39	33331	MINITWS BLU S/F ALLCOLOR	V24DAC WH 39
33134	TWS LED GRE S ALLCLEAR	V110AC GY 29	33242	MINITWS AMB S/F ALLCLEAR	V24DAC GY 39	33332	MINITWS AMB S/F ALLCOLOR	V24DAC WH 39
33135	TWS LED YEL S ALLCLEAR	V110AC GY 29	33243	MINITWS RED S/F ALLCLEAR	V24DAC GY 39	33333	MINITWS RED S/F ALLCOLOR	V24DAC WH 39
33136	TWS LED CLR S ALLCLEAR	V110AC GY 29	33244	MINITWS GRE S/F ALLCLEAR	V24DAC GY 39	33334	MINITWS GRE S/F ALLCOLOR	V24DAC WH 39
33141	TWS LED BLU S ALLCLEAR	V240AC GY 29	33245	MINITWS YEL S/F ALLCLEAR	V24DAC GY 39	33335	MINITWS YEL S/F ALLCOLOR	V24DAC WH 39
33142	TWS LED A/Y S ALLCLEAR	V240AC GY 29	33246	MINITWS CLR S/F ALLCLEAR	V24DAC GY 39	33336	MINITWS CLR S/F ALLCOLOR	V24DAC WH 39
33143	TWS LED RED S ALLCLEAR	V240AC GY 29	33251	MINITWS BLU S/F ALLCLEAR	V110AC GY 39	33347	TWS FOLDABLE JOIN	GY 47
33144	TWS LED GRE S ALLCLEAR	V240AC GY 29	33252	MINITWS AMB S/F ALLCLEAR	V110AC GY 39	33348	TWS FOLDABLE JOIN	BK 47
33145	TWS LED YEL S ALLCLEAR	V240AC GY 29	33253	MINITWS RED S/F ALLCLEAR	V110AC GY 39	33349	TWS FOLDABLE JOIN	WH 47
33146	TWS LED CLR S ALLCLEAR	V240AC GY 29	33254	MINITWS GRE S/F ALLCLEAR	V110AC GY 39	33351	MINITWS BLU S/F ALLCOLOR	V110AC WH 39
33151	TWS LED BLU S ALLCLEAR	V240AC BK 29	33255	MINITWS YEL S/F ALLCLEAR	V110AC GY 39	33352	MINITWS AMB S/F ALLCOLOR	V110AC WH 39
33152	TWS LED A/Y S ALLCLEAR	V240AC BK 29	33256	MINITWS CLR S/F ALLCLEAR	V110AC GY 39	33353	MINITWS RED S/F ALLCOLOR	V110AC WH 39
33153	TWS LED RED S ALLCLEAR	V240AC BK 29	33261	MINITWS BLU S/F ALLCLEAR	V240AC GY 39	33354	MINITWS GRE S/F ALLCOLOR	V110AC WH 39
33154	TWS LED GRE S ALLCLEAR	V240AC BK 29	33262	MINITWS AMB S/F ALLCLEAR	V240AC GY 39	33355	MINITWS YEL S/F ALLCOLOR	V110AC WH 39
33155	TWS LED YEL S ALLCLEAR	V240AC BK 29	33263	MINITWS RED S/F ALLCLEAR	V240AC GY 39	33356	MINITWS CLR S/F ALLCOLOR	V110AC WH 39
33156	TWS LED CLR S ALLCLEAR	V240AC BK 29	33264	MINITWS GRE S/F ALLCLEAR	V240AC GY 39	33357	TWS STAINLESS BRACKET	GY 47

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33359	TWS STAINLESS BRACKET	WH 47	36452	BABYTWS AMB S ALLCOLOR V24DAC	41	36702	TWS LED AMB S ALLCOLOR V240AC	BK 29
33361	MINITWS BLU S/F ALLCLEAR V24DAC	WH 39	36453	BABYTWS RED S ALLCOLOR V24DAC	41	36703	TWS LED RED S ALLCOLOR V240AC	BK 29
33362	MINITWS AMB S/F ALLCLEAR V24DAC	WH 39	36454	BABYTWS GRE S ALLCOLOR V24DAC	41	36704	TWS LED GRE S ALLCOLOR V240AC	BK 29
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33365	MINITWS YEL S/F ALLCLEAR V24DAC	WH 39	36461	BABYTWS SOUNDER	GY 41	36711	TWS LED BLU M ALLCOLOR V24DAC	BK 29
33366	MINITWS CLR S/F ALLCLEAR V24DAC	WH 39	36462	BABYTWS SOUNDER	BK 41	36712	TWS LED AMB M ALLCOLOR V24DAC	BK 29
33371	MINITWS BLU S/F ALLCLEAR V110AC	WH 39	36463	BABYTWS WIRING BASE	WH 41	36713	TWS LED RED M ALLCOLOR V24DAC	BK 29
33372	MINITWS AMB S/F ALLCLEAR V110AC	WH 39	36464	BABYTWS SOUNDER	WH 41	36714	TWS LED GRE M ALLCOLOR V24DAC	BK 29
33373	MINITWS RED S/F ALLCLEAR V110AC	WH 39	36471	TWS LED BLU S ALLCOLOR V24DAC	GY 29	36715	TWS LED YEL M ALLCOLOR V24DAC	BK 29
33374	MINITWS GRE S/F ALLCLEAR V110AC	WH 39	36472	TWS LED AMB S ALLCOLOR V24DAC	GY 29	36716	TWS LED CLR M ALLCOLOR V24DAC	BK 29
33375	MINITWS YEL S/F ALLCLEAR V110AC	WH 39	36473	TWS LED RED S ALLCOLOR V24DAC	GY 29	36721	TWS LED BLU M ALLCOLOR V110AC	BK 29
33376	MINITWS CLR S/F ALLCLEAR V110AC	WH 39	36474	TWS LED GRE S ALLCOLOR V24DAC	GY 29	36722	TWS LED AMB M ALLCOLOR V110AC	BK 29
33381	MINITWS BLU S/F ALLCLEAR V240AC	WH 39	36475	TWS LED YEL S ALLCOLOR V24DAC	GY 29	36723	TWS LED RED M ALLCOLOR V110AC	BK 29
33382	MINITWS AMB S/F ALLCLEAR V240AC	WH 39	36476	TWS LED CLR S ALLCOLOR V24DAC	GY 29	36724	TWS LED GRE M ALLCOLOR V110AC	BK 29
33383	MINITWS RED S/F ALLCLEAR V240AC	WH 39	36481	TWS LED BLU S ALLCOLOR V110AC	GY 29	36725	TWS LED YEL M ALLCOLOR V110AC	BK 29
33384	MINITWS GRE S/F ALLCLEAR V240AC	WH 39	36482	TWS LED AMB S ALLCOLOR V110AC	GY 29	36726	TWS LED CLR M ALLCOLOR V110AC	BK 29
33385	MINITWS YEL S/F ALLCLEAR V240AC	WH 39	36483	TWS LED RED S ALLCOLOR V110AC	GY 29	36731	TWS LED BLU M ALLCOLOR V240AC	BK 29
33386	MINITWS CLR S/F ALLCLEAR V240AC	WH 39	36484	TWS LED GRE S ALLCOLOR V110AC	GY 29	36732	TWS LED AMB M ALLCOLOR V240AC	BK 29
33391	MINITWS BLU S/F ALLCOLOR V240AC	WH 39	36485	TWS LED YEL S ALLCOLOR V110AC	GY 29	36733	TWS LED RED M ALLCOLOR V240AC	BK 29
33392	MINITWS AMB S/F ALLCOLOR V240AC	WH 39	36486	TWS LED CLR S ALLCOLOR V110AC	GY 29	36734	TWS LED GRE M ALLCOLOR V240AC	BK 29
33393	MINITWS RED S/F ALLCOLOR V240AC	WH 39	36491	TWS LED BLU S ALLCOLOR V240AC	GY 29	36735	TWS LED YEL M ALLCOLOR V240AC	BK 29
33394	MINITWS GRE S/F ALLCOLOR V240AC	WH 39	36492	TWS LED AMB S ALLCOLOR V240AC	GY 29	36736	TWS LED CLR M ALLCOLOR V240AC	BK 29
33395	MINITWS YEL S/F ALLCOLOR V240AC	WH 39	36493	TWS LED RED S ALLCOLOR V240AC	GY 29	40931	LED BULB 4.5.4 WO BLU BA15D V12DAC	46
33396	MINITWS CLR S/F ALLCOLOR V240AC	WH 39	36494	TWS LED GRE S ALLCOLOR V240AC	GY 29	40932	LED BULB 4.5.4 WO AMB BA15D V12DAC	46
33400	TWS SOUNDER A+	V12/24DAC GY 34	36495	TWS LED YEL S ALLCOLOR V240AC	GY 29	40933	LED BULB 4.5.4 WO RED BA15D V12DAC	46
33401	TWS SOUNDER A+	V90/240AC GY 34	36496	TWS LED CLR S ALLCOLOR V240AC	GY 29	40934	LED BULB 4.5.4 WO GRE BA15D V12DAC	46
33402	TWS SOUNDER A+	V12/24DAC BK 34	36501	TWS LED BLU M ALLCOLOR V24DAC	GY 29	40935	LED BULB 4.5.4 WO YEL BA15D V12DAC	46
33403	TWS SOUNDER A+	V90/240AC BK 34	36502	TWS LED AMB M ALLCOLOR V24DAC	GY 29	40936	LED BULB 4.5.4 WO CLR BA15D V12DAC	46
33411	TWS S BLU ALLCOLOR	V12/24DAC GY 30	36503	TWS LED RED M ALLCOLOR V24DAC	GY 29	40941	LED BULB 4.5.4 WO BLU BA15D V24DAC	46
33412	TWS S AMB ALLCOLOR	V12/24DAC GY 30	36504	TWS LED GRE M ALLCOLOR V24DAC	GY 29	40942	LED BULB 4.5.4 WO AMB BA15D V24DAC	46
33413	TWS S RED ALLCOLOR	V12/24DAC GY 30	36505	TWS LED YEL M ALLCOLOR V24DAC	GY 29	40943	LED BULB 4.5.4 WO RED BA15D V24DAC	46
33414	TWS S GRE ALLCOLOR	V12/24DAC GY 30	36506	TWS LED CLR M ALLCOLOR V24DAC	GY 29	40944	LED BULB 4.5.4 WO GRE BA15D V24DAC	46
33415	TWS S YEL ALLCOLOR	V12/24DAC GY 30	36511	TWS LED BLU M ALLCOLOR V110AC	GY 29	40945	LED BULB 4.5.4 WO YEL BA15D V24DAC	46
33416	TWS S CLR ALLCOLOR	V12/24DAC GY 30	36512	TWS LED AMB M ALLCOLOR V110AC	GY 29	40946	LED BULB 4.5.4 WO CLR BA15D V24DAC	46
33421	TWS S BLU ALLCOLOR	V12/24DAC BK 30	36513	TWS LED RED M ALLCOLOR V110AC	GY 29	40951	LED BULB 4.5.4 WO BLU BA15D V110AC	46
33422	TWS S AMB ALLCOLOR	V12/24DAC BK 30	36514	TWS LED GRE M ALLCOLOR V110AC	GY 29	40952	LED BULB 4.5.4 WO AMB BA15D V110AC	46
33423	TWS S RED ALLCOLOR	V12/24DAC BK 30	36515	TWS LED YEL M ALLCOLOR V110AC	GY 29	40953	LED BULB 4.5.4 WO RED BA15D V110AC	46
33424	TWS S GRE ALLCOLOR	V12/24DAC BK 30	36516	TWS LED CLR M ALLCOLOR V110AC	GY 29	40954	LED BULB 4.5.4 WO GRE BA15D V110AC	46
33425	TWS S YEL ALLCOLOR	V12/24DAC BK 30	36521	TWS LED BLU M ALLCOLOR V240AC	GY 29	40955	LED BULB 4.5.4 WO YEL BA15D V110AC	46
33426	TWS S CLR ALLCOLOR	V12/24DAC BK 30	36522	TWS LED AMB M ALLCOLOR V240AC	GY 29	40956	LED BULB 4.5.4 WO CLR BA15D V110AC	46
33431	TWS S BLU ALLCLEAR	V12/24DAC GY 30	36523	TWS LED RED M ALLCOLOR V240AC	GY 29	40961	LED BULB 4.5.4 WO BLU BA15D V240AC	46
33432	TWS S AMB/YEL ALLCLEAR	V12/24DAC GY 30	36524	TWS LED GRE M ALLCOLOR V240AC	GY 29	40962	LED BULB 4.5.4 WO AMB BA15D V240AC	46
33433	TWS S RED ALLCLEAR	V12/24DAC GY 30	36525	TWS LED YEL M ALLCOLOR V240AC	GY 29	40963	LED BULB 4.5.4 WO RED BA15D V240AC	46
33434	TWS S GRE ALLCLEAR	V12/24DAC GY 30	36526	TWS LED CLR M ALLCOLOR V240AC	GY 29	40964	LED BULB 4.5.4 WO GRE BA15D V240AC	46
33435	TWS S YEL ALLCLEAR	V12/24DAC GY 30	36681	TWS LED BLU S ALLCOLOR V24DAC	BK 29	40965	LED BULB 4.5.4 WO YEL BA15D V240AC	46
33436	TWS S CLR ALLCLEAR	V12/24DAC GY 30	36682	TWS LED AMB S ALLCOLOR V24DAC	BK 29	40966	LED BULB 4.5.4 WO CLR BA15D V240AC	46
33441	TWS S BLU ALLCLEAR	V12/24DAC BK 30	36683	TWS LED RED S ALLCOLOR V24DAC	BK 29	70941	BULB BA 15D 5W V12	46
33442	TWS S AMB/YEL ALLCLEAR	V12/24DAC BK 30	36684	TWS LED GRE S ALLCOLOR V24DAC	BK 29	70942	BULB BA 15D 5W V24	46
33443	TWS S RED ALLCLEAR	V12/24DAC BK 30	36685	TWS LED YEL S ALLCOLOR V24DAC	BK 29	70943	BULB BA 15D 5W V48	46
33444	TWS S GRE ALLCLEAR	V12/24DAC BK 30	36686	TWS LED CLR S ALLCOLOR V24DAC	BK 29	70944	BULB BA 15D 5W V130	46
33445	TWS S YEL ALLCLEAR	V12/24DAC BK 30	36691	TWS LED BLU S ALLCOLOR V110AC	BK 29	70945	BULB BA 15D 5W V240	46
33446	TWS S CLR ALLCLEAR	V12/24DAC BK 30	36692	TWS LED AMB S ALLCOLOR V110AC	BK 29	70970	BULB [1X25PCS] BA 15D 5W V12	46
33447	TWS RGA ALLCLEAR	V12/24DAC GY 31	36693	TWS LED RED S ALLCOLOR V110AC	BK 29	70971	BULB [1X25PCS] BA 15D 5W V24	46
33448	TWS RGA ALLCLEAR	V12/24DAC BK 31	36694	TWS LED GRE S ALLCOLOR V110AC	BK 29	70972	BULB [1X25PCS] BA 15D 5W V48	46
36449	BABYTWS WIRING BASE	BK 41	36695	TWS LED YEL S ALLCOLOR V110AC	BK 29	70973	BULB [1X25PCS] BA 15D 5W V130	46
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