AUTOMAX

devices for the automation industry

GENERAL CATALOGUE

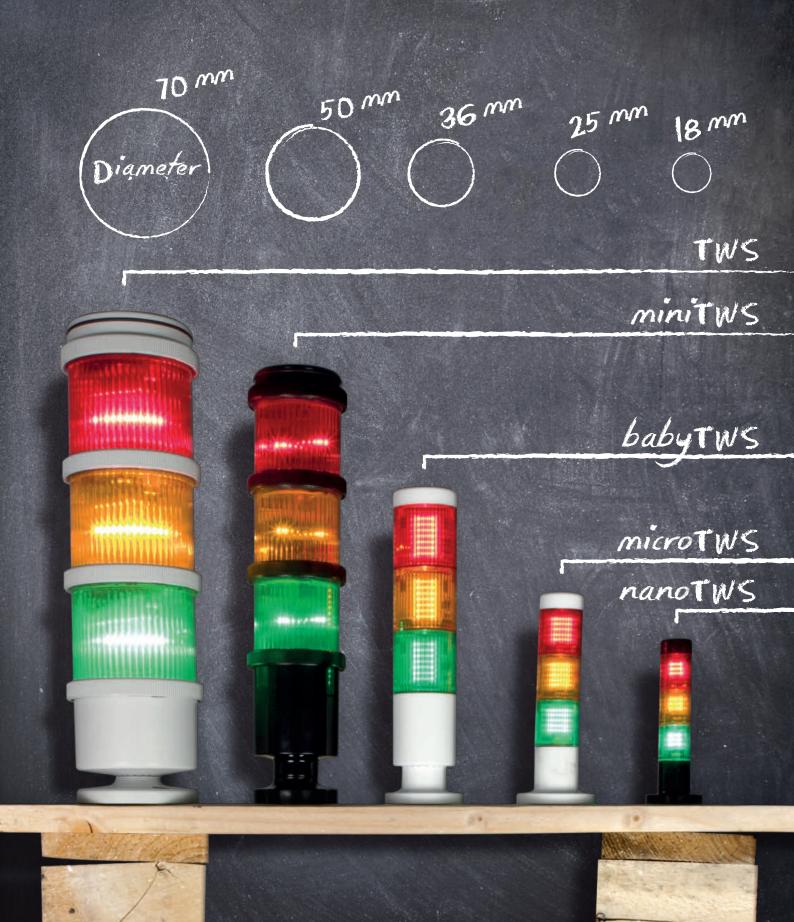








TWS COMPARATIVE TABLE





MODULES' COLOR

ACCORDING TO IEC 60073

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

DANGER

DANGEROUS SITUATION, REQUIRES IMMEDIATE ACTION

(example: pressure/ temperature outwith safety standards)

MANDATORY

SITUATIONS
THAT REQUIRE
MANDATORY
INTERVENTION

(example: critical data input necessary to proceed)

NORMAL

NORMAL

(example: authorization to proceed/machinery in function)



ANOMALY

ANOMALY SITUATION, REQUIRES MONITORING AND/OR INTERVENTION

(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)



devices for the automation industry

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. 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.

allCOLO R

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.

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.

> 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 OFF creating switched 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

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.

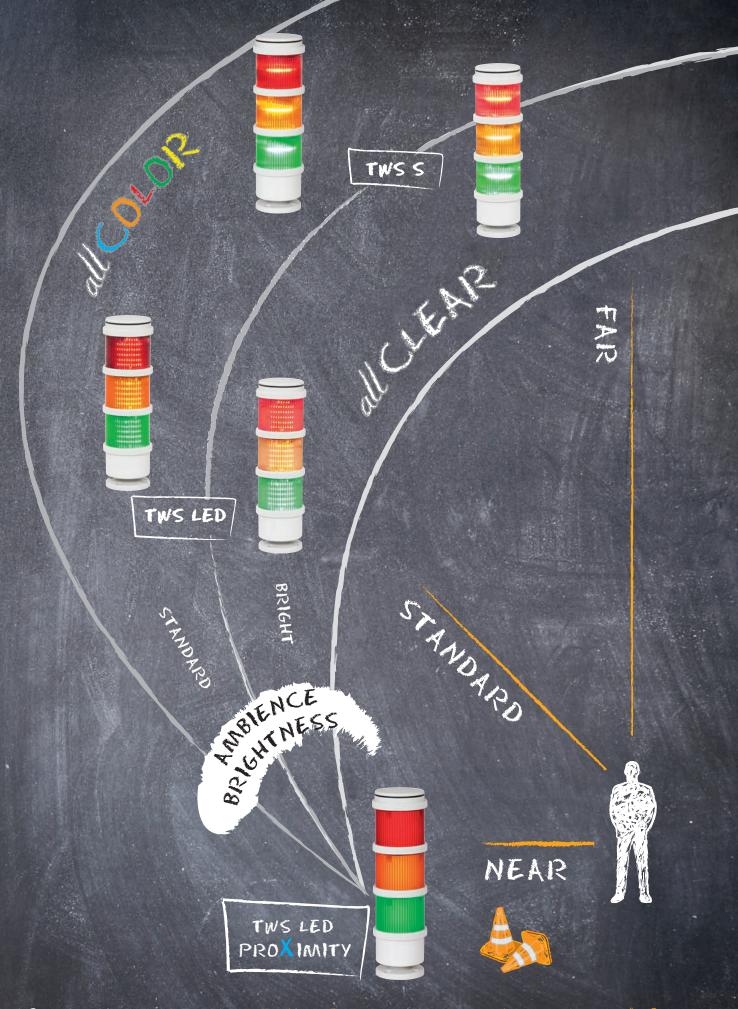


> USE NEAR THE OPERATOR

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.

1116-48

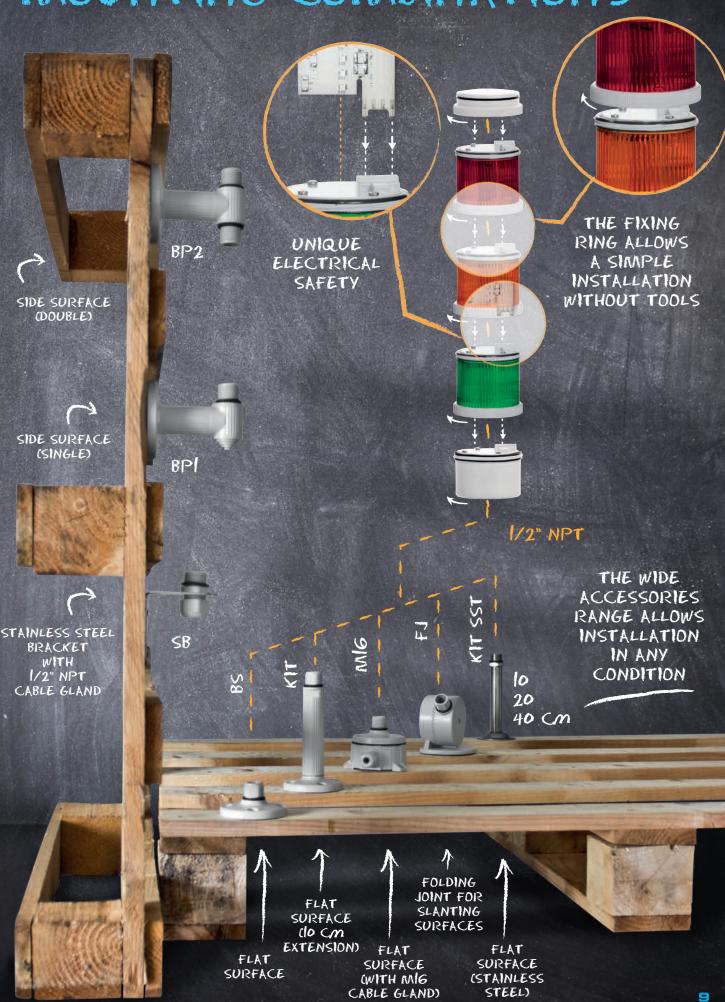


DISTANCE BETWEEN OPERATOR AND STACKLIGHT

7

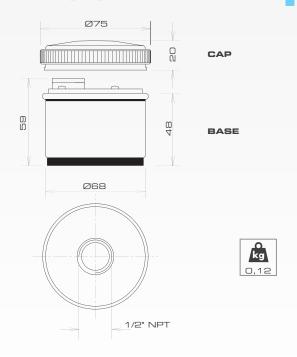


MOUNTING COMBINATIONS





DRAWINGS, DIMENSIONS AND WEIGHTS



TWS BASE I PART NO

See page 19, section "BASES"

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/TYPE 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











> LOW CONSUMPTION < > RESISTANCE TO VIBRATIONS <



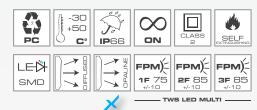




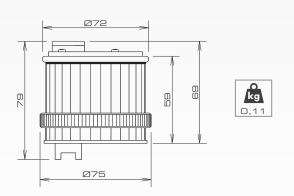








DRAWINGS, DIMENSIONS AND WEIGHTS



TWS LED I PART NO

See page 19, 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.

allCOLOR, allCLEAR Available with 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 I STEADY LIGHT
TWS LED MULTI I 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 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 perfect light types, according to the final application

aliCOLOR

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

alichear

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











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















SMD

SLIPER

BRIGHT





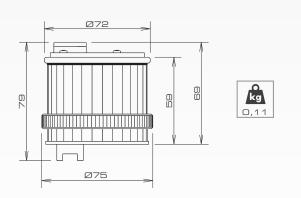






SELF

DRAWINGS, DIMENSIONS AND WEIGHTS



TWS SIPART NO

See page 19, section "TWS S"

TWS S



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 well as performance as virtually zero maintenance thanks to the built-in I FD 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/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 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

aliclear

USE IN VERY BRIGHT ENVIRONMENTSClear 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













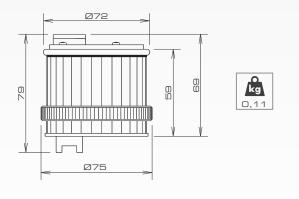
> SUPERBRIGHT < > MULTICOLOR < > LOW CONSUMPTION < > RESISTANCE TO VIBRATIONS <







DRAWINGS, DIMENSIONS AND WEIGHTS



TWS RGA I PART NO

See page 19, section "TWS RGA"





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 3 different channel, allowing to deliver 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 I FD 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 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

USE IN VERY BRIGHT ENVIRONMENTS

Clear lens with colored light source. 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













> BA15D < > LED BULB COMPATIBLE <















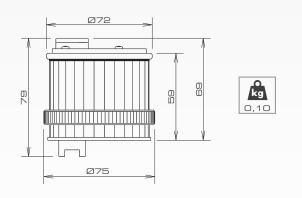








DRAWINGS, DIMENSIONS AND WEIGHTS



TWS STEADY/FLASHING I PART NO

See page 19, 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 I STEADY LIGHT TWS FLASHING I 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 hiah 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°











> XENON <

















XENON







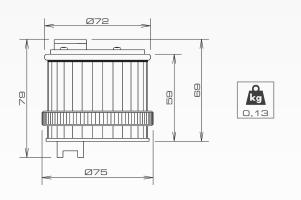




FPM)[|FPM)[1F 90

24V 110-240V

DRAWINGS, DIMENSIONS AND WEIGHTS



TWS X | PART NO

See page 19, section "TWS X"

TWS X -

Light module with integrated Xenon discharge

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 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/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°

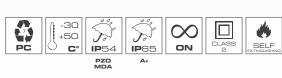












TWS SOUNDERS I PART NO

See page 19, 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 meanetodynamic sounder. 16 tones selectable via dip-switch, this IP65 module is ideal for outdoor applications

KEY CHARACTERISTICS

NUMBER OF TONES

PZO I 3 (low output) + 3 (high output) MDA I 32 (mixed tones) A+ I 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 I IP54, UL TYPE 3R MDA I IP54, UL TYPE 3R A+ I IP65, UL TYPE 3R

OPERATING TEMPERATURE

-30/+50 C°

MECHANICAL FEATURES

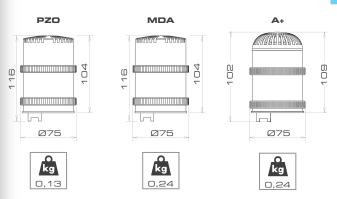
Self extinguishing PC body with high resistance, suitable for outdoor use thanks to the IP54/TYPE 3R (A+: IP65/TYPE 3R) protection grade

ACOUSTIC FEATURES

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

Magnetodynamic unit, frequency 300-2850Hz

DRAWINGS, DIMENSIONS AND WEIGHTS









> STAINLESS STEEL < > IP69K <



> ANODIZED ALUMINIUM < > IP69K <

TWS HD I PART NO

See page 19, 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



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

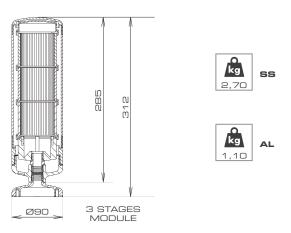
TUV SUD IP69K

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 I 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













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





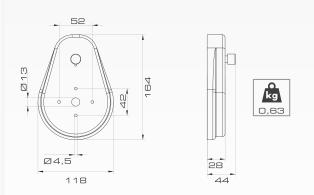








DRAWINGS, DIMENSIONS AND WEIGHTS



TWS B4D | PART NO

See page 19, 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 O I 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

Internal use

OPERATING TEMPERATURE

-30/+50 C°

MECHANICAL FEATURES

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







m	TWS LED - In	ntegrated	LED light	t module									
UJ	CTEADY		B			— <u>F</u>			<u> </u>		<u> </u>	<u></u>	J
	STEADY	GY	вк	GY	вк	GY	вк	GY	вк	GY	вк	GY	вк
	24V ACDC	36471	36681	36472	36682	36473	36683	36474	36684	36475	36685	36476	36686
	110V AC		36691	36482		36483		36484		36485			36696
	₹ 240V AC	36491	36701	36492	36/02	36493	36/03	36494	36/04	36495	36/05	36496	36706
	24V ACDC		33151	33122		33123		33124		33125			33156
	110V AC 240V AC		33161 33171	33132	33162	33133		33134		33135			33166 33176
		55554	00004	55555	50000	88888	00000	00004	00004	00005	00005	00000	88888
	24V ACDC 110V AC		32231	32202		32203		32204		32205 32215			32236
	240V AC	32221	32251	32222	32252	32223	32253	32224	32254	32225	32255	32226	32256
	MULTI												
	24V ACDC	36501	36711	36502	36712	36503	36713	36504	36714	36505	36715	36506	36716
7	110V AC	36511	36721	36512		36513	36723	36514		36515			36726
	240V AC	36521	36731	36522	36732	36523	36733	36524	36734	36525	36735	36526	36736
	§ 24V ACDC	33181	33211	33182	33212	33183	33213	33184	33214	33185	33215	33186	33216
	110V AC		33221	33192		33193		33194		33195			33226
	₹ 240V AC	33201	33231	33202	33232	33203	33233	33204	33234	33205	33235	33206	33236
	£ 24V ACDC		32291	32262		32263		32264		32265			32296
	110V AC 240V AC		32301	32272		32273		32274		32275 32285			32306 32316
	<u>.</u>												
V	TWS S - Supe	rhright, m	ultifunctio	onal integr	rated LEC) light ma	idule						
			_		_	g	•	_		_	-		
			<u> </u>					<u>C</u>	•			[r	
		GY	ВК	GY	ВК	GY	BK	GY	ВК	GY	ВК	GY	ВК
	OLOR 12/24V ACDC		33421		33422	33413		33414		33415			33426
	TWS STEAD	OY/FLA	ASHIN	G - Ligh	t module	with trad	litional Ba	a15d lamp	holder				
			B ——								<u> </u>	\bigcirc	J
	STEADY	GY	BK	GY	BK	GY	вк	GY	вк	GY	ВК	GY	вк
	12/240V ACDC												
								_	_				_
	FLASHING		BI							<u>\</u>	<u> </u>	<u> </u>	7
		GY	ВК	GY	ВК	GY	BK	GY	ВК	GY	ВК	GY	ВК
	12/48V DC 24/240V AC		27641 27651		27642 27652	27713 27723	27643 27653	27714 27724		27715 27725			27646 27656
	_	_,,	2,00.	_,,	2,002	2,,20	2,000	_,,	2,00.	2,,20	2,000	2,,20	2,000
	TWS X - Light	; module v	vith integi	rated Xen	on disch	arge lamp							
			a l								<u> </u>		J]
		GY	вк	GY	ВК	GY	ВК	GY	ВК	GY	ВК	GY	вк
	24V ACDC		27661		27662	27733		27734		27735			27666
	110V AC		27671		27672	27743		27744		27745			27676
	240V AC	27751	27681	27752	27682	27753	27683	27754	27684	27755	27685	27756	27686
	TWS RGA - :				UNDE	:RS —				AC	CESS	ORIES	
		GY	вк					GY	ВК		WH	GY	ВК
	12/24V ACDC	33447	33448	PZO PZO		48V ACD 0/240V A		27718 27719		BP1 BP2	27708	27762	27693 27694
				MDA	12/	24V ACD		27790		SB	33359	33357	33358
	TWS HD —			MDA		/ AC DV AC		27791 27792		BS KIT	-	27760	27691 27695
	ENOLOGY ITT 10	SS	AL	MDA		OV AC		27793		PR	-		27695
	ENCLOSURE (2) ENCLOSURE (3)		27603 27840	A +		24V ACC		33400		M16			27778
	ENCLOSURE (4)		27607	A+		0/240V A	U	33401	33403	FJ KIT !	33345 8S L10	33347	27765
	FLAT MOUNTER POLE MOUNTER		27841 27842	BA	SES						65 L20		27766
	SIDE MOUNTER		27843					GY	вк	KIT S	SS L40		27767

27680 27843

BASE

24V ACDC

B4D 24V ACDC

SIDE MOUNTER

27700 27690

- 21437



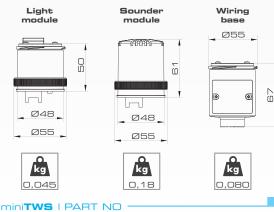






DRAWINGS, DIMENSIONS AND WEIGHTS

See page 29, 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 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 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 2 different lens types, according to the final application

allCOLO? 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 requency 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 stack-light (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





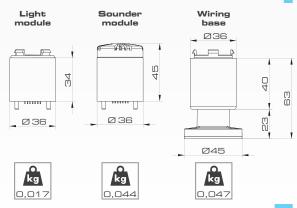








DRAWINGS, DIMENSIONS AND WEIGHTS



baby**TWS** I PART NO

See page 29, section "babyTWS"

baby**TWS**

LIGHT MODULE

Integrated LED STEADY light 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

all GUEAR 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











> LOW CONSUMPTION < > RESISTANCE TO VIBRATIONS <



-30

+50

C°

















ON

Sounder module

























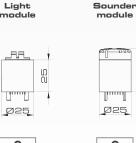




Wiring

025

DRAWINGS, DIMENSIONS AND WEIGHTS













micro**TWS** I PART NO

See page 29, section "microTWS"

micro**TWS**

LIGHT MODULE

Integrated LED STEADY liaht module babyTWS offers versatility and excellent optical performance as well as virtually zero maintenance thanks to the built-in I FD 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, 65 dB

VOLTAGES

24V ACDC +/-10%

PROTECTION GRADE

Internal 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

alighear

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



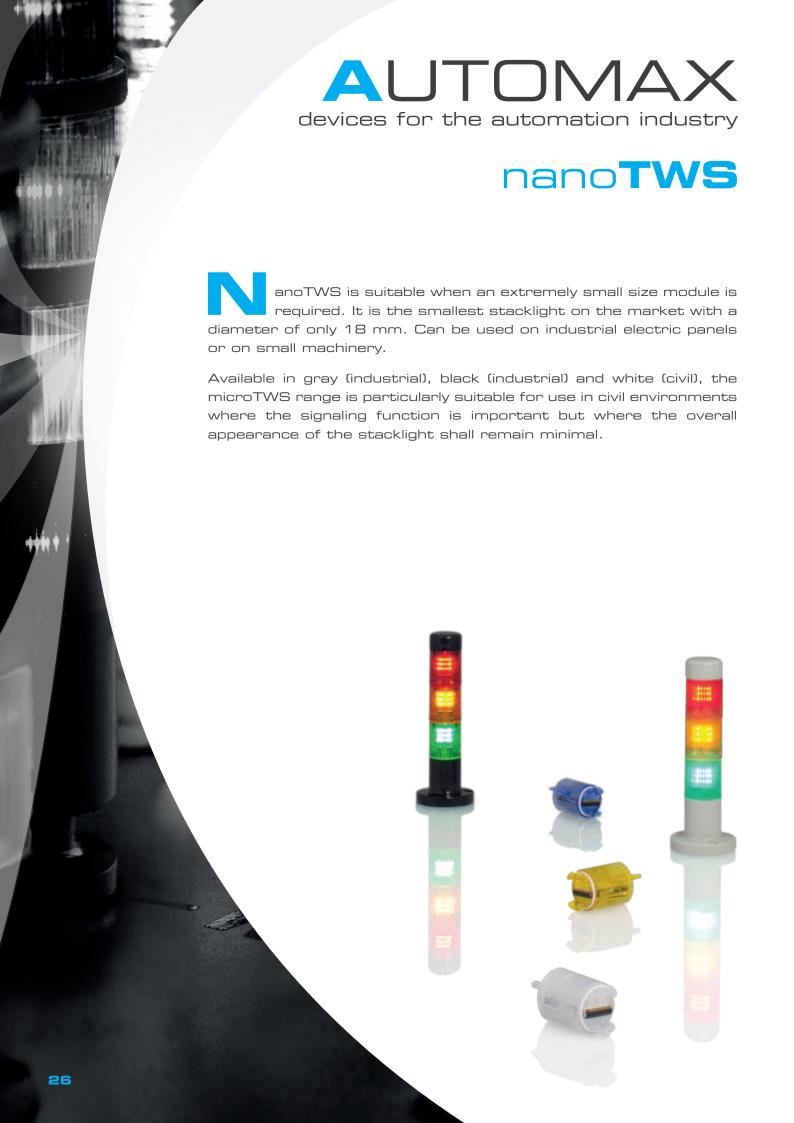
ACOUSTIC FEATURES

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











> LOW CONSUMPTION < > RESISTANCE TO VIBRATIONS <























Wiring base



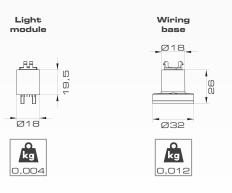








DRAWINGS, DIMENSIONS AND WEIGHTS



nano**TWS** I PART NO

See page 29, section "nanoTWS"

nanoTWS -

LIGHT MODULE

LED STEADY light Integrated versatility nanoTWS offers 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.

* At normal conditions, without vibrations and heavy temperature changes

KEY CHARACTERISTICS

LIGHT EFFECTS

STEADY

VOLTAGES

24V ACDC +/-10%

PROTECTION GRADE

Internal use

OPERATING TEMPERATURE

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

aliGUEAR

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











75

FJ

40

SB

L40

0,28



Ø58

KIT SS

miniTWS - Integrated LED steady/flashing light module -7 allCOLOR allGLEAR allCOLOR allGLEAR alicolor aliblear alicolor aliblear 24V ACDC 31501 33241 31502 33242 31503 33243 31504 33244 31505 33245 31506 33246 GY 110V AC 31511 33261 31512 33262 31513 33263 31514 33264 31515 33265 31516 33266 240V AC 31521 33251 31522 33252 31523 33253 31524 33254 31525 33255 31526 33256 24V ACDC 31541 33301 31542 33302 31543 33303 31544 33304 31545 33305 31546 33306 вк 110V AC 31551 33321 31552 33322 31553 33323 31554 33324 31555 33325 31556 33326 31561 33311 31562 33312 31563 33313 31564 33314 31565 33315 31566 33316 240V AC 24V ACDC 33331 33361 33332 33362 33333 33363 33364 33365 33365 33366 33366 WWI ⊨1 110V AC 33391 33381 33392 33382 33393 33383 33394 33384 33395 33385 33396 33386 240V AC 33351 33371 33352 33372 33353 33373 33354 33374 33355 33375 33356 33376 babyTWS - Integrated LED steady light module alicolor aliciear alicolor aliciear alicolor aliciear alicolor aliciear alicolor aliciear alicolor aliciear 24V ACDC 36451 33271 36452 33272 36453 33273 36454 33274 36455 33275 36456 33276 microTWS - Integrated LED steady light module -N alicolor alicitar alicolor alicolor alicolor alicitar alicolor alicitar alicolor alicitar alicolor alicitar 24V ACDC 31571 33281 31572 33282 31573 33283 31574 33284 31575 33285 31576 33286

Nanotws - Integrated LED steady light module -7 allolor 24V ACDC 31581 33291 31582 33292 31583 33293 31584 33294 31585 33295 31586 33296

			WH	GY	вк
	247	ACDC	33327	31531	31534
mini TWS	110	V AC	33328	31532	31535
	240	V AC	33329	31533	31536
baby TWS	24V	ACDC	36464	36461	36462
micro TWS	24V	ACDC	31568	31538	31539

SOUNDERS -

ACCESSORIES —								
	WH	GY	ВК					
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					
кіт ѕ	27765							
KIT S	27766							
KIT S	27767							

BASES -				
	WH	GY	ВК	
mini TWS	33330	31500	31508	
baby TWS	36463	36450	36449	
micro TWS	31567	31537	31540	
nano TWS	31589	31587	31588	
			29	

KIT





LUXOR 3









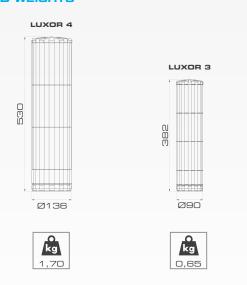








DRAWINGS, DIMENSIONS AND WEIGHTS



LUXOR LED I PART NO

LUXOR 3 24V ACDC LUXOR 4 24V ACDC 16693 16664

More configurations upon request: automax@sirena.it

LUXOR LED -

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

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

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 12 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 distribution over 360° light

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









AUTOMAX is Sirena's range of multifunctional stacklights engineered for the automation industry

automax@sirena.it





MADE IN ITALY

Engineered, Developed and Assembled in Rosta, Italy



C.so Moncenisio 5-10-12-14-16 10090 ROSTA (TO) I Italia

Tel +39.011.95.68.555 (25 linee ISDN) | Fax +39.011.95.67.928

www.sirena.it | sirena.spa@sirena.it

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