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TOWER SECTOR

TOWER SECTOR

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LX1 120 C	23
LX1 060 C	23
LX1 150 C	23
LX1 030 C	23
LX1 160 C	23
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LX1 161 C	23
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LX1 033 C	24
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LX1 110 C	24
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LX1 B - ALTERNATING LIGHT

LX1 060 B	25
LX1 150 B	25
LX1 030 B	25
LX1 160 B	25
LX1 070 B	25
LX1 110 B	25
LX1 081 B	25
LX1 121 B	25

LX2 C - BLINKING OR CONTINUOUS LIGHT WITH ELECTRONICS

LX2 010 C	26
LX2 040 C	26
LX2 080 C	26
LX2 120 C	26
LX2 060 C	26
LX2 150 C	26
LX2 030 C	26
LX2 160 C	26
LX2 031 C	26
LX2 161 C	26
LX2 032 C	27
LX2 162 C	27
LX2 033 C	27
LX2 163 C	27
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LX2 122 C	28
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LX2 B - ALTERNATING LIGHT

LX2 060 B	29
LX2 150 B	29
LX2 030 B	29
LX2 160 B	29
LX2 070 B	29
LX2 110 B	29
LX2 081 B	29
LX2 121 B	29

LX3 C - BLINKING OR CONTINUOUS LIGHT WITH ELECTRONICS

LX3 010 C	30
LX3 040 C	30
LX3 080 C	30
LX3 120 C	30
LX3 060 C	30
LX3 150 C	30
LX3 030 C	30
LX3 160 C	30
LX3 031 C	31
LX3 161 C	31
LX3 032 C	31

LX3 162 C	31
LX3 033 C	31
LX3 163 C	31
LX3 070 C	32
LX3 110 C	32
LX3 081 C	32
LX3 121 C	32
LX3 071 C	32
LX3 111 C	32
LX3 082 C	32
LX3 122 C	33
LX3 072 C	33
LX3 112 C	33
LX3 083 C	33
LX3 073 C	33
LX3 084 C	33
LX3 074 C	34

LX3 B - ALTERNATING LIGHT

LX3 060 B	34
LX3 150 B	34
LX3 030 B	34
LX3 160 B	34
LX3 070 B	34
LX3 110 B	34
LX3 081 B	34
LX3 121 B	34

LX4 C - BLINKING OR CONTINUOUS LIGHT WITH ELECTRONICS

LX4 010 C	35
LX4 040 C	35
LX4 080 C	35
LX4 120 C	35
LX4 060 C	35
LX4 150 C	35
LX4 070 C	35
LX4 110 C	36
LX4 081 C	36
LX4 121 C	36
LX4 071 C	36
LX4 111 C	36
LX4 082 C	36
LX4 122 C	37
LX4 072 C	37
LX4 112 C	37
LX4 083 C	37
LX4 073 C	38
LX4 084 C	38
LX4 074 C	38

LX4 B - ALTERNATING LIGHT

LX4 060 B	38
LX4 150 B	39
LX4 070 B	39
LX4 110 B	39
LX4 081 B	39
LX4 121 B	39

LX1 F - CONTINUOUS LIGHT WITHOUT ELECTRONICS

LX1 010 F	40
LX1 040 F	40
LX1 080 F	40

LX1 120 F	40
LX1 060 F	40
LX1 150 F	40
LX1 030 F	40
LX1 160 F	40
LX1 031 F	40
LX1 161 F	41
LX1 032 F	41
LX1 162 F	41
LX1 033 F	41
LX1 163 F	41
LX1 070 F	41
LX1 110 F	42
LX1 081 F	42
LX1 121 F	42
LX1 071 F	42
LX1 111 F	42

**LX2 F - CONTINUOUS LIGHT
WITHOUT ELECTRONICS**

LX2 010 F	43
LX2 040 F	43
LX2 080 F	43
LX2 120 F	43
LX2 060 F	43
LX2 150 F	43
LX2 030 F	43
LX2 160 F	43
LX2 031 F	44
LX2 161 F	44
LX2 032 F	44
LX2 162 F	44
LX2 033 F	44
LX2 163 F	44
LX2 070 F	45
LX2 110 F	45
LX2 081 F	45
LX2 121 F	45
LX2 071 F	45
LX2 111 F	45
LX2 082 F	45
LX2 122 F	46
LX2 072 F	46
LX2 112 F	46
LX2 083 F	46
LX2 073 F	46

**LX3 F - CONTINUOUS LIGHT
WITHOUT ELECTRONICS**

LX3 010 F	47
LX3 040 F	47
LX3 080 F	47
LX3 120 F	47
LX3 060 F	47
LX3 150 F	47
LX3 030 F	47
LX3 160 F	47
LX3 031 F	48
LX3 161 F	48
LX3 032 F	48
LX3 162 F	48
LX3 033 F	48
LX3 163 F	49
LX3 070 F	49
LX3 110 F	49
LX3 081 F	49
LX3 121 F	50
LX3 071 F	50
LX3 111 F	50
LX3 082 F	50

LX3 122 F	50
LX3 072 F	50
LX3 112 F	51
LX3 083 F	51
LX3 073 F	51
LX3 084 F	51
LX3 074 F	51

**LX4 F - CONTINUOUS LIGHT
WITHOUT ELECTRONICS**

LX4 010 F	52
LX4 040 F	52
LX4 080 F	52
LX4 120 F	52
LX4 060 F	52
LX4 150 F	52
LX4 070 F	52
LX4 110 F	53
LX4 081 F	53
LX4 121 F	53
LX4 071 F	53
LX4 111 F	53
LX4 082 F	53
LX4 122 F	54
LX4 072 F	54
LX4 112 F	54
LX4 083 F	54
LX4 073 F	55
LX4 084 F	55
LX4 074 F	55

LX4 R - ROTATING BEACON

LX4 200 R	56
LX4 210 R	56
LX4 220 R	56
LX4 230 R	56
LX4 201 R	57
LX4 211 R	57
LX4 221 R	57
LX4 231 R	57

**LX4 C - BLINKING OR CONTINUOUS LIGHT
WITH ELECTRONICS + ROTATING BEACON**

LX4 090 C	58
LX4 130 C	58
LX4 100 C	58
LX4 140 C	58
LX4 091 C	58
LX4 131 C	58
LX4 101 C	59
LX4 141 C	59
LX4 092 C	59
LX4 102 C	59
LX4 093 C	60
LX4 103 C	60

**LX4 F - CONTINUOUS LIGHT WITHOUT
ELECTRONICS + ROTATING BEACON**

LX4 090 F	61
LX4 130 F	61
LX4 100 F	61
LX4 140 F	61

LX4 091 F	61
LX4 131 F	61
LX4 101 F	62
LX4 141 F	62
LX4 092 F	62
LX4 102 F	62
LX4 093 F	63
LX4 103 F	63

LX2 X - XENON FLASHING BEACON

LX2 020 X	64
LX2 050 X	64

LX3 X - XENON FLASHING BEACON

LX3 020 X	64
LX3 050 X	64

LX4 X - XENON FLASHING BEACON

LX4 020 X	65
LX4 050 X	65
LX4 021 X	65
LX4 051 X	65

ACCESSORIES

PR1 A - PR2 A - PR3 A - PR4 A	
PR1 B - PR2 B - PR3 B	66
PF1 - PF2 - PF3	66
BT1 - BT2 - BT3 - BT4	66
BMC1 - BMC2 - BMC3	66
BC1/BC2	66

SPARE PARTS

BULBS	67
DIFFUSERS	68



TOWER SECTOR - TWS



**TWS TOWER
WITH FILAMENT
BULBS**



**TWS TOWER
WITH LED BULBS**



**TWS TOWER
WITH INTEGRATED
LEDS**



TWS AND LUXOR: COMPARISON OF TWO PHILOSOPHIES

SIRENA, specialists in the audible and visual warning field, is constantly aware of continual production changes that characterize industrial standards and, for this reason, has developed two different ranges of luminous towers especially designed for installation on machines: **TOWER SECTOR** and **LUXOR**.

The main characteristics that characterize the **TWS** range are:

- TOTAL SAFETY**
- EASY INSTALLATION**
- APPLICATION VERSATILITY** using the wide range of accessories available

The whole TWS range includes 8 products **consisting of combinable modules**:

TWS BC	BASE MODULE FOR STANDARD TOWER
TWS F	CONTINUOUS LIGHT MODULE
TWS L	FLASHING LIGHT MODULE
TWS X	XENON LIGHT MODULE
TWS A	PIEZOELECTRIC ACOUSTIC MODULE
TWS AM	ELECTRONIC ACOUSTIC MODULE
LD 125 TWS F	CONTINUOUS LIGHT MODULE WITH INTEGRATED LEDS
LD 125 TWS L	FLASHING LIGHT MODULE WITH INTEGRATED LEDS

These modules satisfy every application demand due to the fact that they are easily assembled (all modules are made with Ø 68) and thanks to the wide range of accessories available.

Absolute safety is guaranteed during maintenance of the product as no “live” part can be touched by the operator.

Three different types of light sources are available using the following bulbs: filament, xenon discharge tube, LED and integrated LEDS. LED integrated version is the latest novelty with the following characteristics: no maintenance, 4 years guarantee, reliability of the device, no heat, clarity of the signal.

The technical characteristics of the TWS range represent the most recent advanced technology: highly resistant and self-extinguishing material, improved IP rating, vibration proof, isolation class II.

These products have been UL and DEMKO approved and conform, therefore, with strict international safety standards.

The **LUXOR** range, thanks to the adaptability of the numerous compositions available, has been especially designed to meet modern requirements in industrial signalling, solving any installation problem. It is the only range of products on the market offering the following characteristics:

- 4 DIFFERENT SIZES (Ø 45 - Ø 65 - Ø 90 - Ø 136) FOR EACH COMPONENT**
- 260 PRE-ASSEMBLED CONFIGURATIONS**
- TOTAL SAFETY**

The LUXOR range is supplied in pre-assembled configurations and is available in 4 different dimensions so as to be adaptable for different size environments, areas and machines. Various versions are also available: single, in line, columns or elements placed opposite each other offering many installation opportunities.

The luminous versions available, in 6 different colours, are continuous, flashing, xenon, rotating and alternating. They can be combined with an acoustic signal.

The LUXOR system offers the designer or installer of the equipment the possibility to extend a single element version by adding more elements as required and substituting the existing PCB with a PCB of more elements.

The aim of the LUXOR range is “total safety”, the same as TWS. On opening the device it is impossible to touch “live” parts as the power supply is cut off (with the exception of the rotating beacon version) assuring maximum safety.

Three different types of light sources are available using the following bulbs: filament, xenon discharge tube and LED.

TWS and LUXOR are, therefore, two different warning systems working to the same goal:

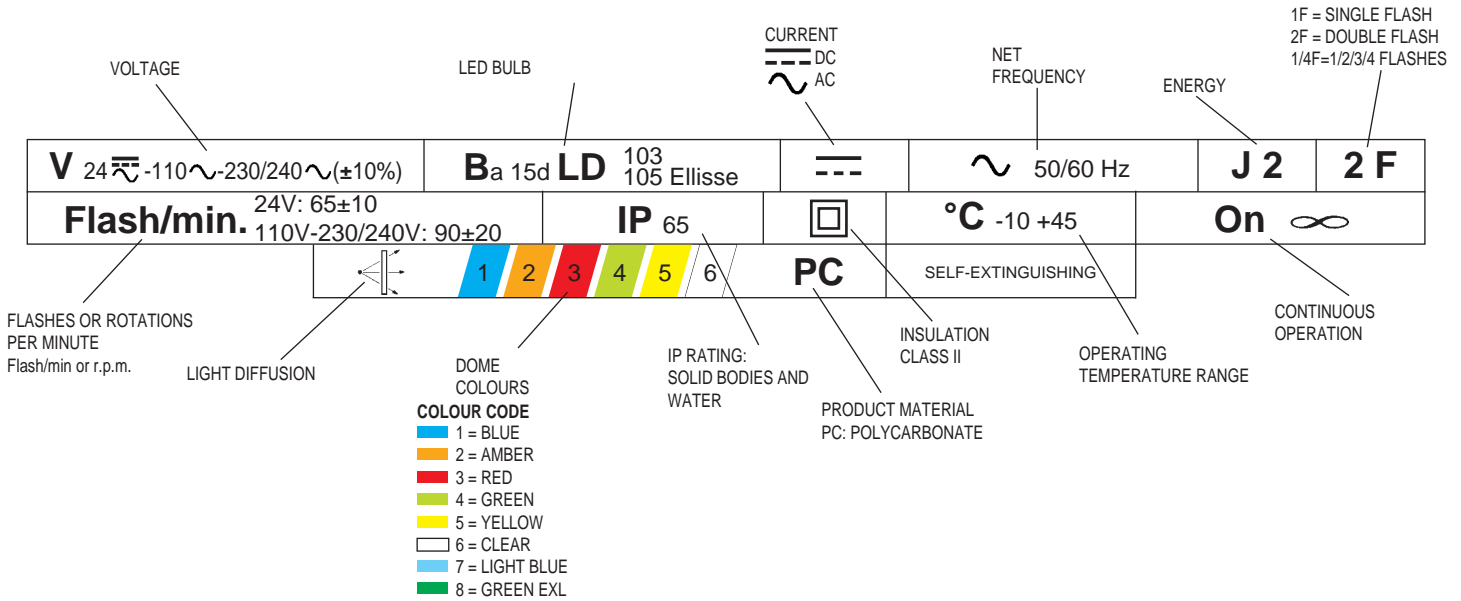
MAXIMUM SERVICE IN TOTAL SAFETY



LEGEND

TOWER SECTOR: MAIN TECHNICAL AND FUNCTIONAL CHARACTERISTICS OF THE PRODUCTS

LUMINOUS MODULES



TECHNICAL INFORMATION REGARDING THE MOST IMPORTANT FUNCTIONAL AND ELECTRICAL CHARACTERISTICS

CODIFICATION: ex. TWSLMT1248D1 →

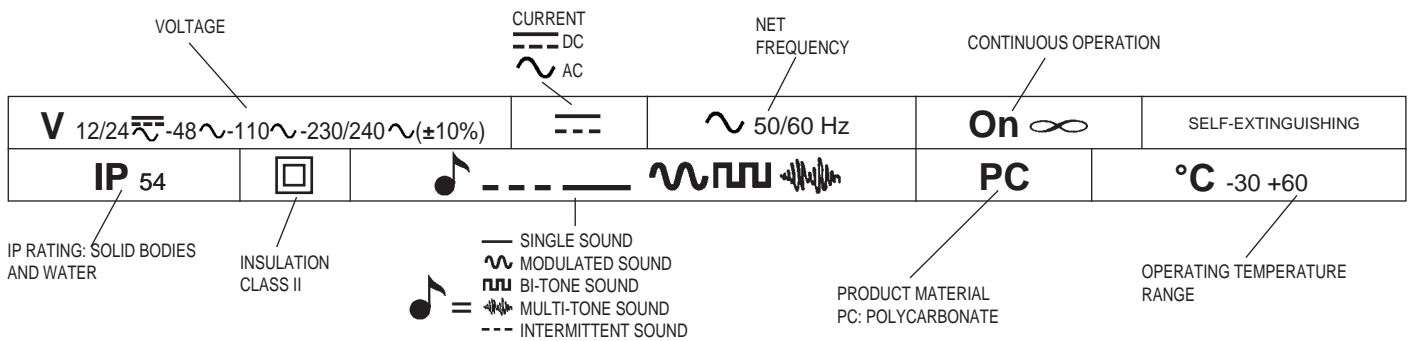
D = direct current	L MT = multi voltage flashing beacon supplied without bulb 12÷48 V DC 24÷240 V AC
A = alternating current	
DA = direct and alternating current	
1F = single flash	
2F = double flash	
1/4F = 1/2/3/4 flashes	
L = flashing light	F MT = multi voltage continuous light beacon supplied without bulb 12÷240 V DC/AC
F = continuous light	
X = xenon flashing light	
LD = integrated LEDS	N = black

TYPE OF LUMINOUS SOURCE	DIRECT CURRENT VOLTAGE			ALTERNATING CURRENT VOLTAGE		
	12 ÷ 24 ÷ 48	-	-	24 ÷ 48 ÷ 110 ÷ 230 ÷ 240	-	-
FILAMENT BULB						
HALOGEN BULB						
XENON TUBE 2J						
XENON TUBE 3-9J						
BA 15d 5W LR BA 15d 5W	430	210	103	37	26	27
	Cd (p)	4	3	3	2,5	2,5

PEAK CANDELAS

CURRENT CONSUMPTION
A=Ampere
1mA=0,001A

ACOUSTIC MODULES



TECHNICAL INFORMATION REGARDING THE MOST IMPORTANT FUNCTIONAL AND ELECTRICAL CHARACTERISTICS

CODIFICATION: ex. TWSAM230240A

D = direct current
A = alternating current
DA = direct and alternating current

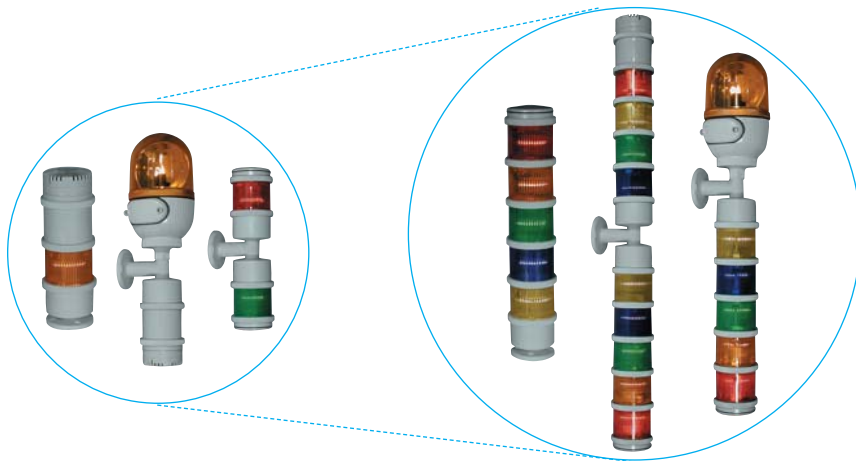
ALTERNATING CURRENT VOLTAGE	DIRECT CURRENT VOLTAGE		
	12 ÷ 24 ÷ 48	-	-
	110 ÷ 230 ÷ 240		
mA	2,7	6	13
Hz	2500 (± 100 Hz)		

CURRENT CONSUMPTION
A=Ampere
1mA=0,001A

SOUND FREQUENCY IN HERTZ

TOWER SECTOR - TWS

Multiple installation possibilities are offered by the various modules and the accessories fitted with 1/2" NPT thread.



On each TOWER SECTOR base (TWS B.C.) 5 modules can be assembled. It is possible to install up to 10 modules or to match TOWER SECTOR with a beacon from the BABYROT, BABYLAMP, BABYFLASH range using the base with 1/2" NPT double thread for wall mounting (TWS BP 2).

6 DIFFERENT COLOURED LIGHT MODULES



2 BASE COLOURS



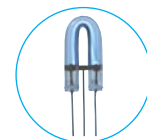
3 TYPES OF LIGHT SOURCE



FILAMENT BULB



LED BULB

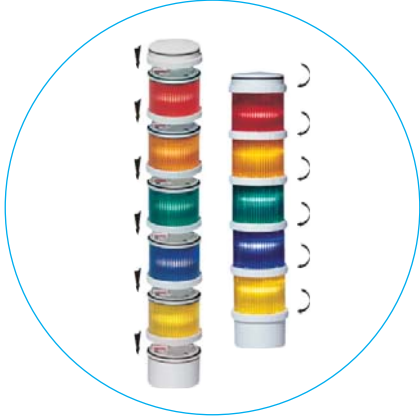


XENON TUBE

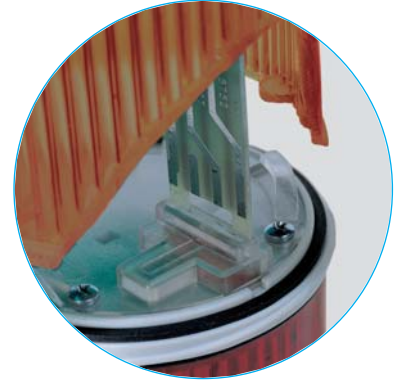


TOWER SECTOR - TWS

TOWER SECTOR has been especially designed to ensure TOTAL, UNIQUE and ABSOLUTE safety. It is possible to REPLACE A BULB or MODIFY THE COLUMN by adding/removing modules in complete SAFETY WITHOUT REMOVING THE POWER SUPPLY.



ASSEMBLY is quick and easy WITHOUT THE USE OF TOOLS: place the vertical printed circuit in the slits provided and push downwards twisting the locking until the module has been completely secured. TOWER SECTOR has been made with an unscrewable tooth locking system placed between the locking and the dome on each module.



IP 65



CE

TOWER SECTOR has been made with high quality material and is supplied with gaskets and "O" Rings ensuring ABSOLUTE RESISTANCE AGAINST ATMOSPHERIC AGENTS. Easy maintenance.

Assembly of the TOWER SECTOR is simple: electrical connection between the modules is automatic and simultaneous on assembling the modules. It is necessary to use the base (TWS B.C.) to assemble TOWER SECTOR that allows the electrical connection. The various modules, as described in this catalogue, can then be added.

IEC 73 COLOURS OF THE LUMINOUS MODULES	
	SERIOUS DANGER ACT NOW
	WARNING PROCEED WITH CARE
	SAFE CONDITION GO AHEAD
	SPECIFIC MEANING GIVEN DEPENDING ON THE SITUATION
	NO SPECIFIC MEANING

