



TOWER LIGHT



Larsen & Toubro is India's leading engineering company. The Electrical Business Group offers the widest range of low tension switchgear. In addition to high quality products from it's own factories. L&T seeks out the best in Power Control Technology and offers these products in the Indian Market. Push Button Actuators, Selector Actuators, LED Indicators & Push Button Stations from ESBEE are part of the world class products offered by Larsen & Toubro.

The Electrical Business Group of Larsen & Toubro manufactures and markets a wide range of L. T. Switchgear & Accessories all over the country. L&T's marketing efforts are complimented by strong service capability that extends nationwide. A network of more than 500 stockist in addition to L&T's own offices ensure that wherever you are in the country ESBEE products are not far from you.

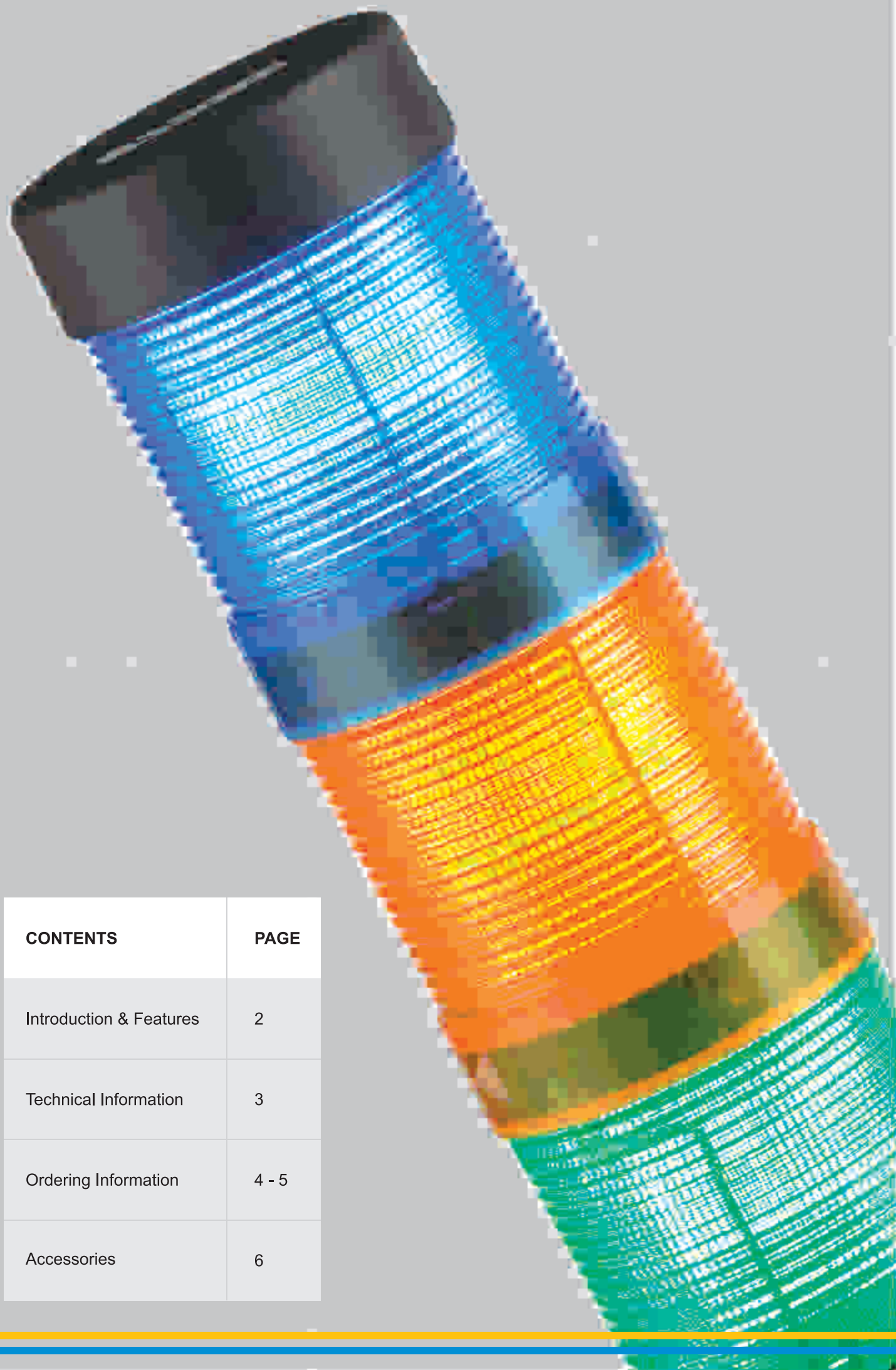


Esbee Industrial combines, manufactures wide range of 22.5 mm Push Button Switches and Pilot Lights (Remote Control Signaling Units).

The quality system of ESBEE industrial combines conforms to **ISO 9001 : 2000**.

ESBEE products have approvals from International testing agencies like VDE (Germany), UL (USA), CSA (Canada) etc.





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INTRODUCTION & FEATURES

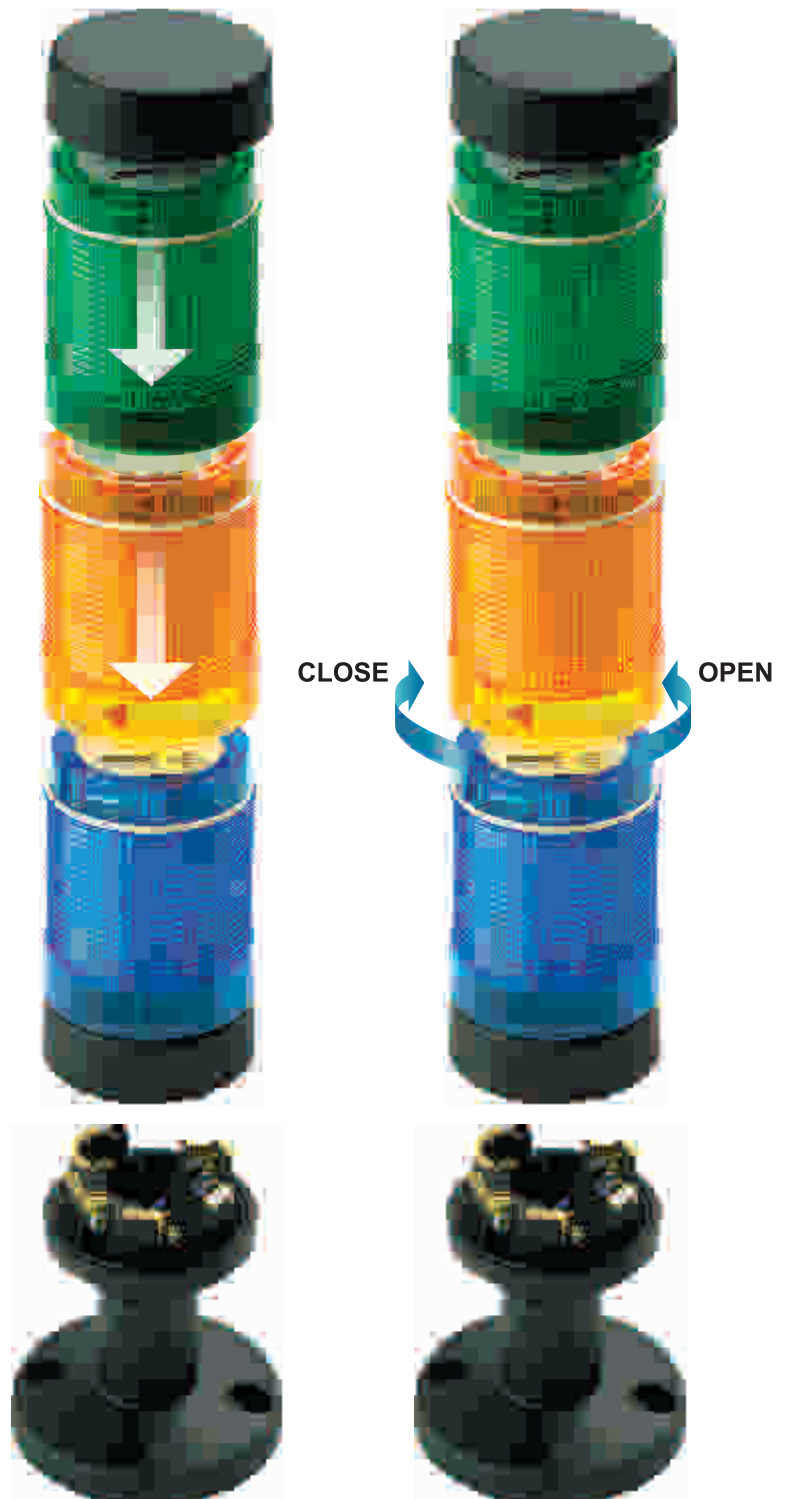
Tower lights are signaling devices used for alarming & indicating machine operation from a distance. Tower lights are mounted on the panels, machines & process lines, they are available in different colors like red, green, amber & blue. Tower lights can be supplied with audible alarms & be used as flashers or steady light configuration.

MODULAR UNITS

- Modular design for maximum flexibility
- User friendly assembly
- Instantaneous and secure electrical connections between units during assembly
- Variable composition one-four Units

EASY ASSEMBLY

- Removable terminal block in base unit for easier wiring
- Cable entry through bottom
- Easy "twist and click" stacking



TECHNICAL INFORMATION

Tower lights consist of standard units it can be assembled up to maximum four stacks. The unique lens designs and superior quality of LEDs ensure that there is uniform illumination if the Tower light is viewed from any direction (360deg). There are units with different luminous modes like permanent, blinking & revolving type.

Buzzer comes as a separate unit, but in the same dimension as illuminated units. Buzzer is available in continuous and intermittent sound mode.

Outer dia.	Ø50mm
Degree Of Protection	IP65
LED Type	SMD
Lens Colour	WHITE / GREEN / BLUE / AMBER / RED
Luminous Mode	Continuous & Blinking
Buzzer Colour	Black
Buzzer Sound Level	80dB
Sounding Mode	Continuous & Intermittent
Voltage Range	24V AC/DC , 110V AC , 240V AC
Limit of Operating Voltage	±10% of rated voltage
Operating Temperature	-30°C to 60°C
Surge Test	2 KVA
HV Test	1.5 KV
Electrical Life cycles	0.1 million continuous burning hour
Current Rating	20-40mA for 24VAC/DC 10-20mA for 110VAC & 240VAC

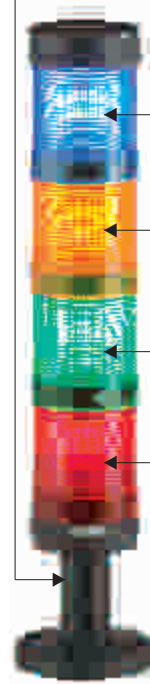
APPLICATIONS

- **Electrical Control Panel**
- **CNC Machines & Tool Industries**
- **Plastic Extrusion Machines**
- **Automobile Industries**
- **Bottling Plants**
- **Supply & Fault Indication for Process Industry**
- **Lighting & Building Segment**
- **Telecommunication**
- **Medical / Pharmaceutical Labs**

ORDERING INFORMATION

	DESCRIPTION	CODE
Series TW	Tower Light	TW
Base	Small	1
	Big	2
Voltage	240V AC	X
	110V AC	W
	24V AC/DC	U
Color	Red	R
	Green	G
	Amber	A
	Blue	B
Luminous Mode	Continuous	1
	Blinking	2
Buzzer *	Continuous	Z1
	Intermittent	Z2

TW	1	X	R	1	G	1	A	2	B	2
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For example :

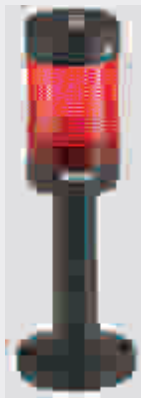
Cat. No. TW1XR1G1A2B1

Description:

Towerlight with Small Base
240 VAC with Red, Green Continuous,
Amber blinking & Blue Continuous
Illumination

* : Buzzer has to be used as last unit in the stacks. Maximum number of stacks possible is four.

TOWERLIGHT WITH SINGLE UNIT (Example)



CAT. NO.

TW1XR1

TW1XG1

DESCRIPTION

Tower Light SB1U (R) Cont. glow 240 VAC

Tower Light SB1U (G) Cont. glow 240 VAC

TOWERLIGHT WITH TWO UNITS (Example)

CAT. NO.

TW1XR1G1

TW1XR2G1

DESCRIPTION

Tower Light SB2U (R, G) Cont. glow 240 VAC

Tower Light SB2U (R) Blink. (G) Cont. glow 240 VAC



TOWERLIGHT WITH THREE UNITS (Example)



CAT. NO.

TW1XR1A1B1

TW1XR2G1A1

TW1XR2G2A1

DESCRIPTION

Tower Light SB3U (R, B, A) Cont. glow 240 VAC

Tower Light SB3U (R) Blink. (G, A) Cont. glow 240 VAC

Tower Light SB3U (R, G) Blink. (A) Cont. glow 240 VAC

CAT. NO.

TW1XR1G1Z1

TW1XR2G2Z1

TW1XR2G1A1Z1

DESCRIPTION

Tower Light SB2U (R, G) Cont. glow 240 VAC, Buzzer

Tower Light SB2U (R, G) Blink. glow 240 VAC, Buzzer

Tower Light SB3U (R) Blink (G, A) Cont. glow 240 VAC, Buzzer



TOWERLIGHT WITH FOUR UNITS (Example)



CAT. NO.

TW1XR1G1A1Z1

TW1XR1G1B1Z1

TW1XR2G1A1Z1

TW1XR2G1B1Z1

DESCRIPTION

Tower Light SB2U (R, G, A) Cont. glow 240 VAC, Buzzer

Tower Light SB3U (R, G, B) Cont. glow 240 VAC, Buzzer

Tower Light SB3U (R) Blink (G, A) Cont. glow 240 VAC, Buzzer

Tower Light SB3U (R) Blink. (G, B) Cont. glow 240 VAC, Buzzer

ACCESSORIES

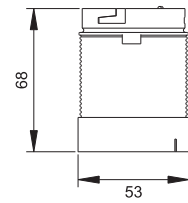
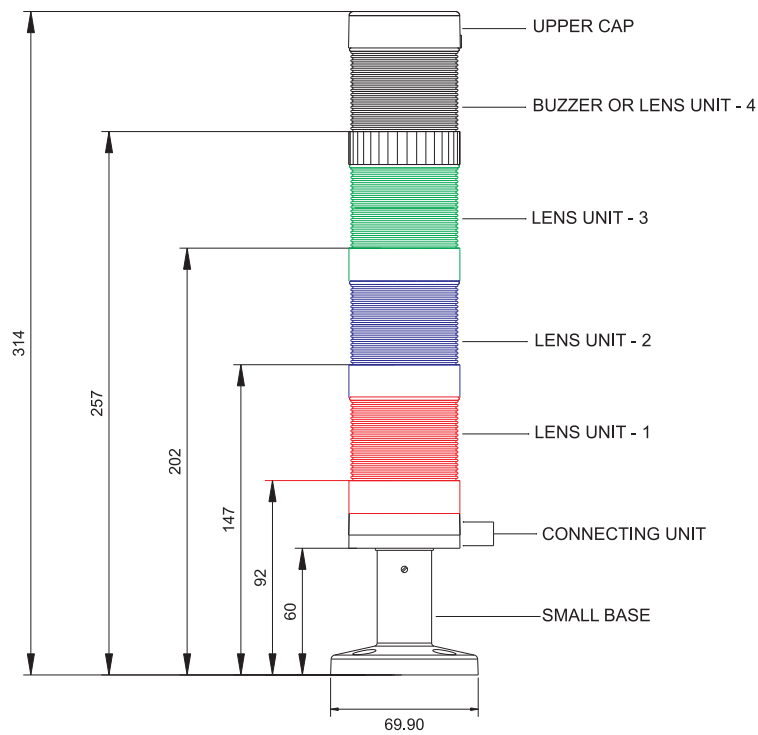


DESCRIPTION		CODE
ACCESSORIES		ES 50
LIGHTS		L
LED COLOUR	RED GREEN AMBER BLUE	R G A B
LUMINOUS MODE	PERMANENT BLINKING	1 2
VOLTAGE	110V AC 240V AC 24 V AC/DC	W X U

CAT. NO.	DESCRIPTION	CAT. NO.	DESCRIPTION	CAT. NO.	DESCRIPTION
ES50LR1W	PERMANENT	ES50LR1X	PERMANENT	ES50LR1U	PERMANENT
ES50LG1W	LUMINOUS /	ES50LG1X	LUMINOUS /	ES50LG1U	LUMINOUS /
ES50LA1W	110V AC	ES50LA1X	220V AC	ES50LA1U	24V AC/DC
ES50LB1W		ES50LB1X		ES50LB1U	
ES50LR2W	BLINKING	ES50LR2X	BLINKING	ES50LR2U	BLINKING
ES50LG2W	LUMINOUS /	ES50LG2X	LUMINOUS \	ES50LG2U	LUMINOUS \
ES50LA2W	110V AC	ES50LA2X	220V AC	ES50LA2U	24V AC/DC
ES50LB2W		ES50LB2X		ES50LB2U	

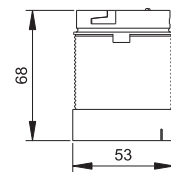
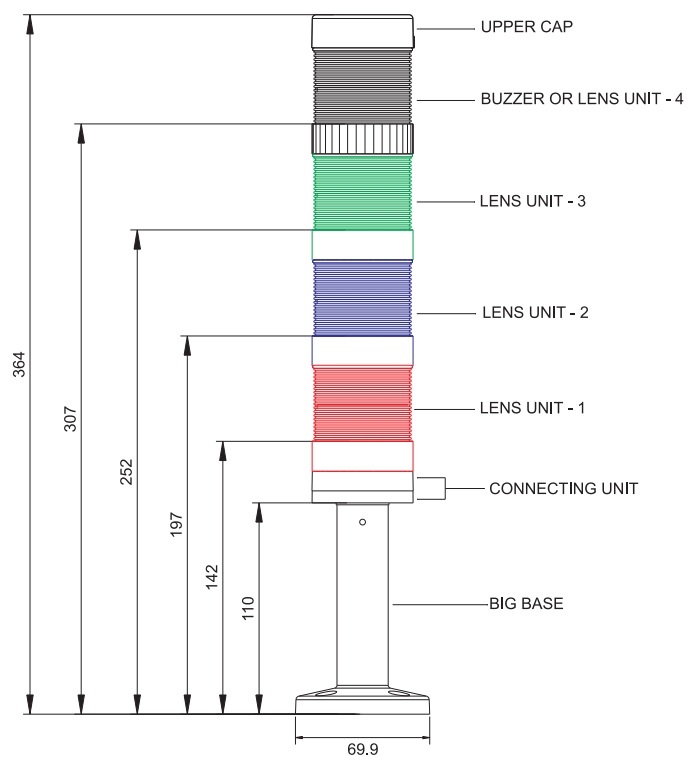
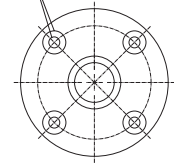
CAT. NO.	DESCRIPTION	CODE	
ACCESSORIES		ES 50	
BUZZER		Z	
SOUNDING MODE	CONTINUOUS INTERMITTENT	1 2	
VOLTAGE	110V AC 220V AC	W X	
CAT. NO.	DESCRIPTION	CAT. NO.	DESCRIPTION
ES50Z1W	80 dB;110V AC	ES50Z1X	80 dB;220V AC
ES50Z2W		ES50Z2X	

DIMENSIONS



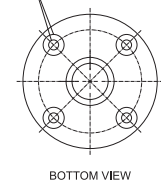
LENS UNIT FOR TOWER LIGHT

COUNTER BORE $\varnothing 11.0/\varnothing 5.2$, 4Nos.
(SCREW SIZE - M5)



LENS UNIT FOR TOWER LIGHT

COUNTER BORE $\varnothing 11.0/\varnothing 5.2$, 4Nos.
(SCREW SIZE - M5)



BOTTOM VIEW

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