



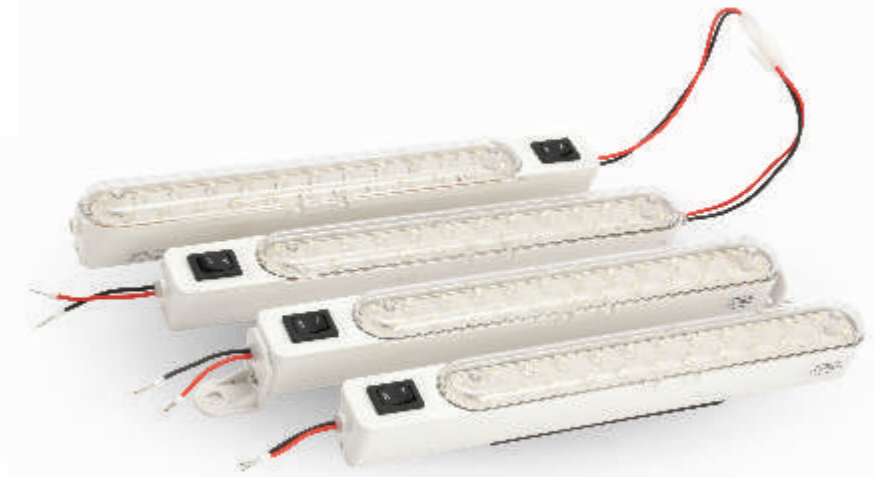
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# PRODUCT PORTFOLIO



Esbee Electrotech LLP  
Formerly known as  
Esbee Industrial Combines

# EVOLVE with CHANGE

The new identity of ESBE is based on the strong fundamentals of Sustainability, Growth and Commitment towards the environment and the society...



## Our new personality,

Gives the impression of an 'Arrow' indicating speed and direction. ESBEE written in white reflects Purity, Ethics and Perfection. The Light Green background represents safety, a prominent feature in all our products. Dark green colour means ability to surge ahead and our logo symbolizes the same. The subtle line in yellow represents the youthfulness & intellectual energy of our company.

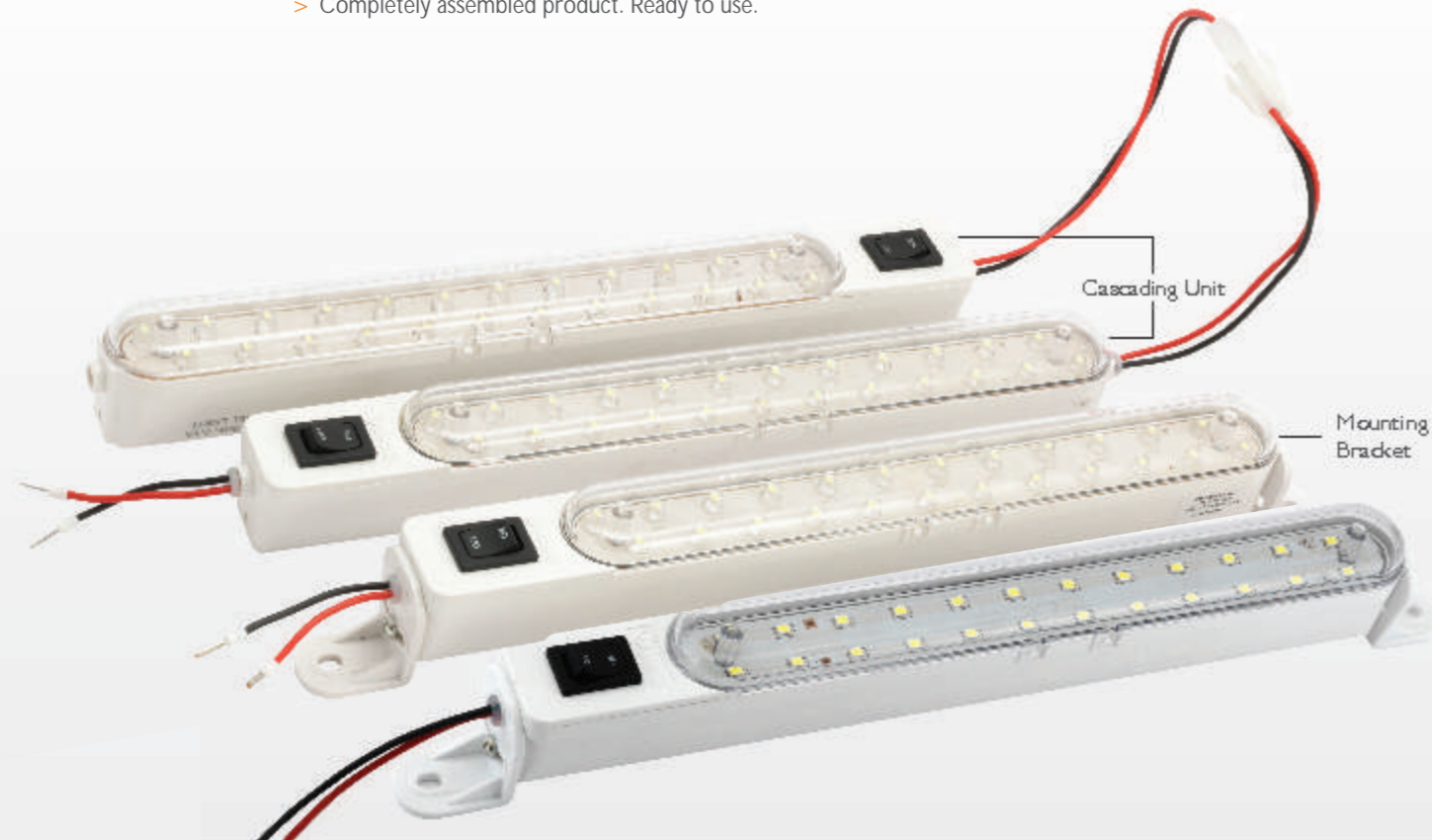


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## LED PANEL LIGHTS

- > Sustains 2.5 KV of Surge & 4 KV of EFT, Allowing the operator to use it at variable as well as under construction sites with complete safety.
- > Being based on Led technology, it offers a longer life reliable solution with no hassles of cost of replacements.
- > Low Power consumption - less than 3 watts.
- > The swiveling brackets offer more than 60° of movement on either side.
- > Product made of Engineering Plastic making it more robust, impact proof, corrosion resistant & fire retardant.
- > Manual overriding switch for operator convenience.
- > Completely assembled product. Ready to use.
- > Maintenance free.
- > 24 bright LED's offering a spectrum of illumination.
- > LED's with Long life of close to 0.1million continuous burning hours.
- > Offer 110 Lux luminous @ 1 meter.
- > Optional Mounting option with Magnets - complete flexibility of movement within the panel.
- > Cascading options available. (2 more units can be cascaded).
- > Under UL & IEC testing.
- > Available in 240 VAC, 110 VAC, 24 VAC/DC, 12 VDC



## TECHNICAL SPECIFICATIONS

Rated Voltage	240V AC, 110V AC, 24V AC/DC, 12V AC/DC
Limit of Operating Voltage	-20% to +10% of Rated Voltage
LED's	5 mm Th. Hole / SMD LEDs
Colours Available	White
Life	0.1 million Burning hours
LED Arrangement	Cluster
Colour Temp.	6000° K - 7000°K
No of LEDs	24
Operating Frequency	50 / 60 Hz
Operating Temperature	-30° C to 65° C
Storage Temperature	-30° C to 70° C
Surge Test	4 KV
HV Test for 60 sec.	2.5 KV
EMI / EMC Protection	4 KV
IP Protection	IP 54
Power Consumption (240V)	< 3W
Contact Terminal	Moles 5557-02 (Other Connector is available on Request)
Mounting & Centre Distance	Magnet, Screw M5 X 25, CD : 299mm
Housing	ABS
Lens	Polycarbonate Clear
Length x Width x Height	315 x 30 x 45 mm
Feature	Swivel

## POPULAR CONFIGURATIONS

### LED Panel Light with ON-OFF switch, White Housing

Voltage	With Bracket	With Magnet
240 V AC	IC24A03W240A	IC24A04W240A
110 V AC	IC24A03W110A	IC24A04W110A
24 V DC	IC24A03W024D	IC24A04W024D
12 V DC	IC24A03W012D	IC24A04W012D

### LED Panel Light with ON-OFF switch, Black Housing

Voltage	With Bracket	With Magnet
240 V AC	IC24A03C240A	IC24A04C240A
110 V AC	IC24A03C110A	IC24A04C110A
24 V DC	IC24A03C024D	IC24A04C024D
12 V DC	IC24A03C012D	IC24A04C012D

### LED Panel Light with ON-OFF switch, Grey Housing

Voltage	With Bracket	With Magnet
240 V AC	IC24A03J240A	IC24A04J240A
110 V AC	IC24A03J110A	IC24A04J110A
24 V DC	IC24A03J024D	IC24A04J024D
12 V DC	IC24A03J012D	IC24A04J012D

## POPULAR CONFIGURATIONS WITH CASCADING UNIT

### LED Panel Light with ON-OFF switch, White Housing with cascading unit with 1 mtr wire

Voltage	With Bracket	With Magnet
240 V AC	IC24A11W240A	IC24A12W240A
110 V AC	IC24A11W110A	IC24A12W120A
24 V DC	IC24A11W024D	IC24A12W024D
12 V DC	IC24A11W012D	IC24A12W012D

### LED Panel Light with ON-OFF switch, Black Housing

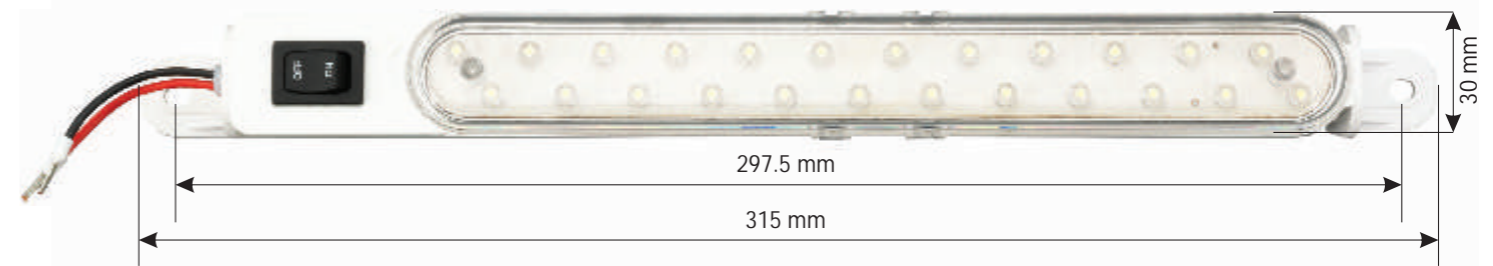
Voltage	With Bracket	With Magnet
240 V AC	IC24A11C240A	IC24A12C240A
110 V AC	IC24A11C110A	IC24A12C120A
24 V DC	IC24A11C024D	IC24A12C024D
12 V DC	IC24A11C012D	IC24A12C012D

### LED Panel Light with ON-OFF switch, Grey Housing

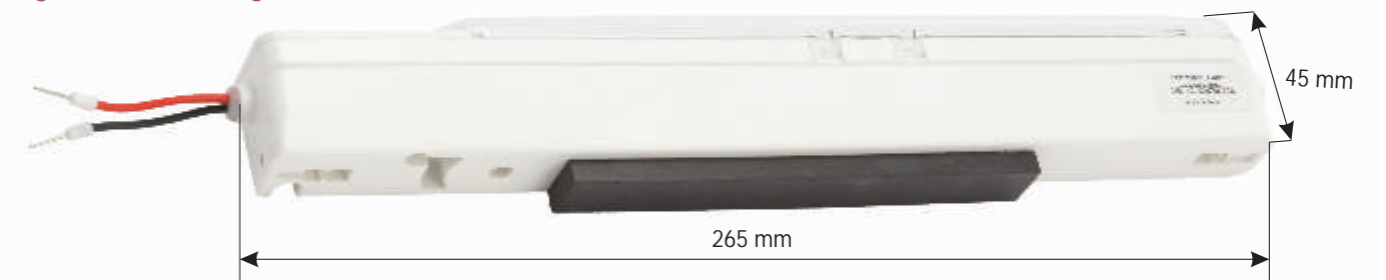
Voltage	With Bracket	With Magnet
240 V AC	IC24A11J240A	IC24A12J240A
110 V AC	IC24A11J110A	IC24A12J120A
24 V DC	IC24A11J024D	IC24A12J024D
12 V DC	IC24A11J012D	IC24A12J012D

## DIMENSIONAL DETAILS

### Bracket Mounting



### Magnet Mounting



# TOWER LIGHTS

## ESBEE TOWER Lights

CHOOSE DIFFERENT COLOURS  
SET YOUR OWN COMBO



- > Sleek & Stackable Design
- > SMD LED technology
- > Uniform & bright illumination
- > Continuous, Flashing and Rotary Integrated LED Light Modules available
- > Flexibility to upgrade from Single LED Unit to multiple LED Units
- > IP 65 protection
- > Wide voltage range from 12V AC/DC to 240V AC
- > Optional feature of Buzzer with dual sound mode - continuous & intermittent with 80 dB output.

INTERNATIONAL APPROVALS:



The standards extend to: 1 | 2 | 3 | 3R | 4 | 4X | 12 | 13  
Indoor or outdoor use primarily to provide a degree of protection against corrosion, windblown dust and rain, splashing water, hose-directed water, and damage from external ice formation.

# TOWER LIGHTS SPARE SELECTION DECODING

## Luminous Lens Selection Decoding

I - Series	II - Color	III - Luminous Mode	IV - Voltage
ES50L- ES Series with 50 mm dia Luminous Lens	A - Amber B - Blue G - Green R - Red W - White Y - Yellow	1 - Continuous 2 - Blinking 3 - Revolving	T - 012V AC/DC U - 024V AC/DC W - 110V AC X - 240V AC



For example :

Cat. No. ES50L A 1 X  
I II III IV

Description: Tower Light Lens with 50 mm dia, Amber continuous Luminous Mode, 240V AC

## Buzzer Lens Selection Decoding

I - Series	II - Sound Mode	III - Voltage
ES50Z- ES Series with 50 mm dia Buzzer Lens Black	1 - Continuous 2 - Intermittent	T - 012V AC/DC U - 024V AC/DC W - 110V AC X - 240V AC



For example :

Cat. No. ES50Z 1 X  
I II III

Description: Tower Light Buzzer Lens with 50 mm dia, continuous Sound Mode, 240V AC

## Tower Light Base Selection\*



	Cat. No.	Description
Small Base	ES5001	Length 60 mm with upper cap
Big Base	ES5002	Length 110 mm with upper cap

## POPULAR CONFIGURATIONS

Voltage	Amber	Blue	Green	Red	White	Buzzer Continuous Sound	Buzzer Intermittent Sound
012V AC/DC	ES50LA1T ES50LA2T ES50LA3T	ES50LB1T ES50LB2T ES50LB3T	ES50LG1T ES50LG2T ES50LG3T	ES50LR1T ES50LR2T ES50LR3T	ES50LW1T ES50LW2T ES50LW3T	ES50Z1T	ES50Z2T
024V AC/DC	ES50LA1U ES50LA2U ES50LA3U	ES50LB1U ES50LB2U ES50LB3U	ES50LG1U ES50LG2U ES50LG3U	ES50LR1U ES50LR2U ES50LR3U	ES50LW1U ES50LW2U ES50LW3U	ES50Z1U	ES50Z2U
110V AC	ES50LA1W ES50LA2W ES50LA3W	ES50LB1W ES50LB2W ES50LB3W	ES50LG1W ES50LG2W ES50LG3W	ES50LR1W ES50LR2W ES50LR3W	ES50LW1W ES50LW2W ES50LW3W	ES50Z1W	ES50Z2W
240V AC	ES50LA1X ES50LA2X ES50LA3X	ES50LB1X ES50LB2X ES50LB3X	ES50LG1X ES50LG2X ES50LG3X	ES50LR1X ES50LR2X ES50LR3X	ES50LW1X ES50LW2X ES50LW3X	ES50Z1X	ES50Z2X

Note: \*For customized Base please be in touch with our sales team.

# TOWER LIGHTS SELECTION DECODING

DESCRIPTION	CODE	
Tower Light	TW	
Base	Small Base (SB)	1
	Big Base (BB)	2
Voltage	240V AC	X
	110V AC	W
	24V AC/DC	U
Unit colour	Red	R
	Green	G
	Amber	A
	Blue	B
	White	W
Luminous mode	Continuous	1
	Blinking	2
	Revolving	3
Buzzer *	Continuous	Z1
	Intermittent	Z2

**TW 1 X R 1 G 1 A 2 B 1**

Cat. No. ES50LB1X  
 Cat. No. ES50LA2X  
 Cat. No. ES50LG1X  
 Cat. No. ES50LR1X  
 Cat. No. ES5001X

For example :  
**Cat. No. TW1XR1G1A2B1**

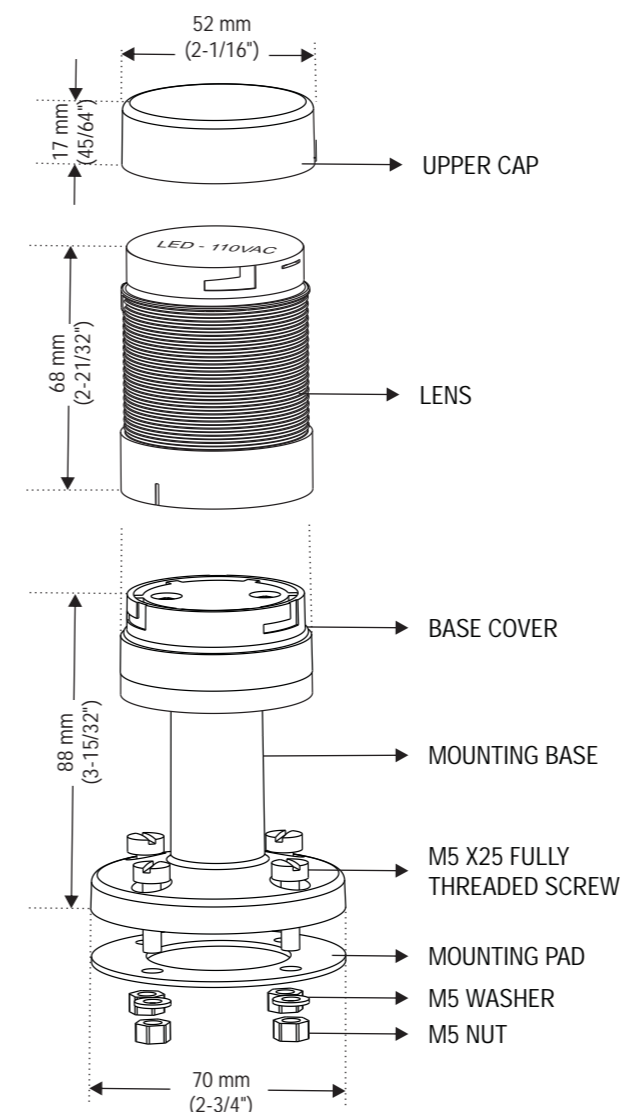
Description:  
 Tower Light with small base  
 240 VAC with Red, Green continuous,  
 Amber blinking & Blue continuous  
 illumination

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

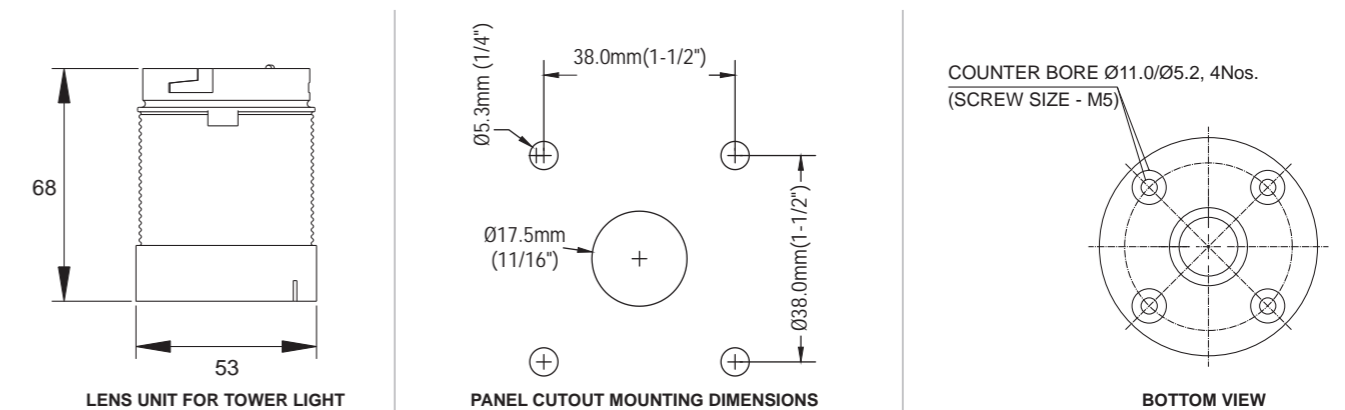
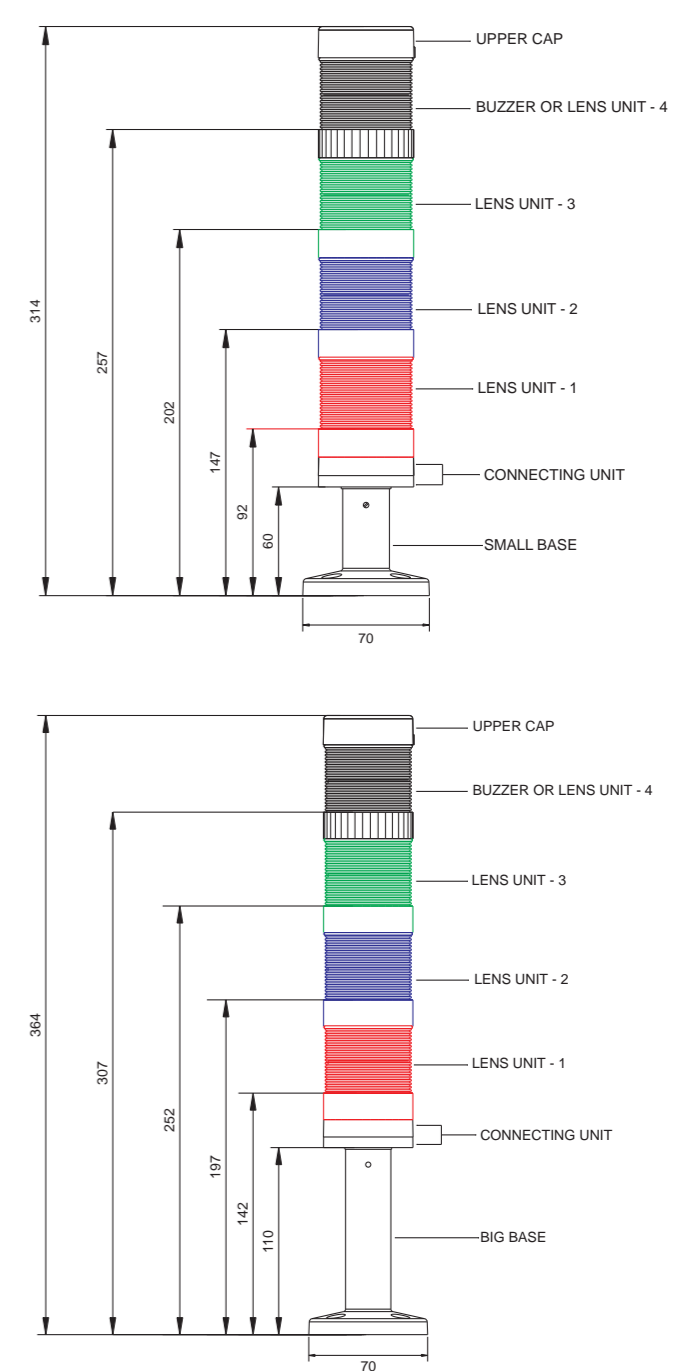
## TECHNICAL SPECIFICATIONS

Outer diameter	Ø50mm
Degree of protection	IP65 & NEMA (1   2   3   3R   4   4X   12   13)
LED type	SMD
Lens colour	RED / GREEN / AMBER / BLUE / WHITE
Luminous mode	Continuous, Blinking & Revolving
LED Life	0.1 million burning hours
Buzzer colour	Black
Buzzer sound level	80dB ± 5dB at 1 meter
Sounding mode	Continuous & Intermittent
Voltage range	24V AC/DC, 110V AC, 240V AC
Limit of operating voltage	± 10% of rated voltage
Operating Frequency	50 / 50 Hz
Operating Temperature	-30°C to 60°C
Storage Temperature	-25°C to 70°C
Wire Terminals	Wire size (AWG) 20-16 / 0.5 mm <sup>2</sup>
Flash Rate (Time / min) ±5%	60
Surge test	2 KV
HV test for 60 sec.	1.5 KV
Current rating	40-60mA for 12V AC/DC & 24V AC/DC 10-20mA for 110V AC & 240V AC

## EXPLODED VIEW



## DIMENSIONS



## GEN NEXT SERIES

- LED Indicators
  - 16 mm
  - 22.5 mm
  - Universal Voltage
- Panel Mounted Buzzer
- Push Button Actuator
  - Illuminated (LED)
  - Non Illuminated
    - Integral
    - Modular
- Led holder & contact block
- Technical specifications
- Exploded View
- UL correlation sheet



## GEN NEXT LED INDICATORS

- > Gen Next LED Indicator with SMD LED technology
- > Sleek & Integral Design
- > Special fire retardant plastic used
- > Easy mounting & wiring
- > Uniform & Bright Illumination
- > Inbuilt LVGP (Low voltage glow protection)
- > Operating life more than 0.1 million Burning hrs
- > Wide Voltage range
- > Available in 6 different colours
- > Withstand 2 KV surge test & passes 1.5 KV HV test for 60 seconds
- > Inbuilt IP20 protection for terminals & IP65



### 16mm Gen Next LED Indicator

Cat. No. : SIL□□□□□  
 Colour (4th Digit) : **R G Y W B A**  
 Voltage (5th, 6th, 7th & 8th Digit):  
 012 C - 12 V AC/DC  
 024 C - 24 V AC/DC  
 048 C - 48 V AC/DC  
 064 C - 64 V AC/DC  
 110 A - 110 V AC  
 240 A - 240 V AC



### 22.5mm Gen Next LED Indicator

Cat. No. : EIL□□□□□  
 Colour (4th Digit) : **R G Y W B A**  
 Voltage (5th, 6th, 7th & 8th Digit):  
 012 C - 12 V AC/DC  
 024 C - 24 V AC/DC  
 048 C - 48 V AC/DC  
 064 C - 64 V AC/DC  
 110 A - 110 V AC  
 110 D - 110 V DC  
 240 A - 240 V AC  
 220 D - 220 V DC  
 415 A - 415 V AC

## UNIVERSAL LED INDICATOR



Cat. No. : EG0100L□□□□□  
 Colour (8th Digit) : **R G Y W B A**  
 Voltage (9th, 10th, 11th & 12th Digit):  
 224 C - 24 to 240 V AC/DC  
 424 C - 40 to 240 V AC/DC

## PANEL MOUNTED BUZZER

- > With continuous sound model with 80dB output
- > IP 20 Terminal protection
- > Available in all different Voltages
- > Passes surge test of 2KV & HV test of 1.5KV
- > Can be fitted in 30 mm dia with additional accessories



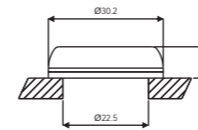
### 22.5 mm Panel Mounted Buzzer, Black Colour

Electrical Rating	Cat. No.	
	Round Type	Square Type
240V AC	EG15R00C240A	EG15S00C240A
110V AC	EG15R00C110A	EG15S00C110A
64V AC/DC	EG15R00C064C	EG15S00C064C
48V AC/DC	EG15R00C048C	EG15S00C048C
30V AC/DC	EG15R00C030C	EG15S00C030C
24V AC/DC	EG15R00C024C	EG15S00C024C
12V AC/DC	EG15R00C012C	EG15S00C012C

Note: Colours available for Indicator & Illuminated Actuator - R - Red, G - Green, Y - Yellow, W - White/Opal, B - Blue, A - Amber

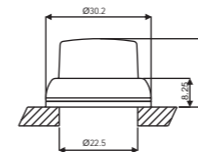
## GEN NEXT ILLUMINATED ACTUATOR

- > Snap Mounting with compact contact blocks (EC1C & EC2C)
- > SMD LED technology
- > Uniform Illumination
- > Snap fit & easy assembly
- > Wide voltage range
- > IP 20 Terminal protection & IP 65
- > Inbuilt LVGP (Low voltage glow protection)
- > Available in six colors
- > Available with all actuators (Flush head, Projecting Head & Selector actuators)
- > Passes surge test 2 KV & HV test of 1.5KV
- > Operating life more than 0.1 million Burning hrs



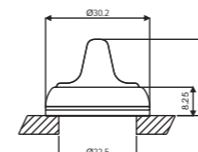
### Flush Head

Cat. No. : EG03FDL□□□□□  
 Colour (8th Digit) : **R G Y A B W**  
 Voltage (9th, 10th, 11th & 12th Digit):  
 012 C - 12 V AC/DC  
 024 C - 24 V AC/DC  
 030 C - 30 V AC/DC  
 048 C - 48 V AC/DC  
 064 C - 64 V AC/DC  
 110 A - 110 V AC  
 110 D - 110 V DC  
 240 A - 240 V AC  
 220 D - 220 V DC



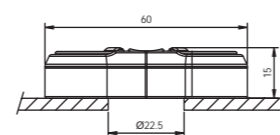
### Projecting Head (Push Function)

Cat. No. : EG03PDL□□□□□  
 Colour (8th Digit) : **R G Y A B W**  
 Voltage (9th, 10th, 11th & 12th Digit):  
 012 C - 12 V AC/DC  
 024 C - 24 V AC/DC  
 030 C - 30 V AC/DC  
 048 C - 48 V AC/DC  
 064 C - 64 V AC/DC  
 110 A - 110 V AC  
 110 D - 110 V DC  
 240 A - 240 V AC  
 220 D - 220 V DC



### Selector Actuator with LED Holder

Cat. No. : **2 Position**  
 Non Spring Return EG03SKL□□□□□  
 Spring Return EG03SIL□□□□□  
**3 Position**  
 Non Spring Return EG03SLL□□□□□  
 Spring Return EG03S JL□□□□□  
 Colour (8th Digit) : **R G Y A B W**  
 Voltage (9th, 10th, 11th & 12th Digit):  
 012 C - 12 V AC/DC  
 024 C - 24 V AC/DC  
 030 C - 30 V AC/DC  
 048 C - 48 V AC/DC  
 064 C - 64 V AC/DC  
 110 A - 110 V AC  
 110 D - 110 V DC  
 240 A - 240 V AC  
 220 D - 220 V DC



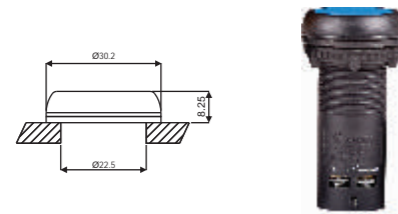
### Twin Touch with LED Holder

Cat. No. : EG03TDL□□□□□  
 Colour (8th Digit) : **Y A**  
 Voltage (9th, 10th, 11th & 12th Digit):  
 012 C - 12 V AC/DC  
 024 C - 24 V AC/DC  
 030 C - 30 V AC/DC  
 048 C - 48 V AC/DC  
 064 C - 64 V AC/DC  
 110 A - 110 V AC  
 110 D - 110 V DC  
 240 A - 240 V AC  
 220 D - 220 V DC

Note\* : 1) In 2 position selector actuator, for operating style  replace 6th digit from K to R and for operating style  replace 6th digit from K to T.  
 2) LED holder is part of Actuator. Please order contact block EC1C and EC2C separately.

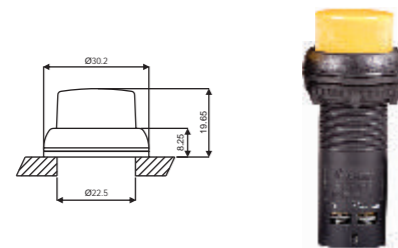
# EINTEGRAL ACTUATOR

- > Patented product
- > Compact and Unique Design
- > Ready to use solution for OEM & Panel Builders
- > IP 20 Terminal protection & IP 65
- > Current rating of 6A at 240 V AC
- > Isolated Terminals for NO+NC application
- > 0.5 million Electrical operation at rated voltage
- > Mechanical life of 1 million operations
- > Can be fitted in 30 mm dia with additional accessories



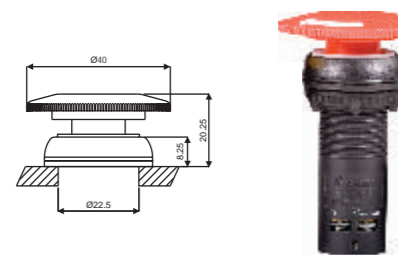
## Flush Head

Cat. No. : EE□□FD1  
 Contact Configuration (3rd Digit):  
 1 - 1 NO  
 2 - 1 NC  
 3 - 1 NO + 1 NC  
 4 - 2 NO  
 5 - 2 NC  
 Colour (4th Digit) : **R G Y W B A C**



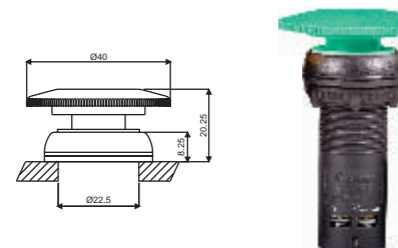
## Projecting Head Push Function

Cat. No. : EE□□PD1  
 Contact Configuration (3rd Digit):  
 1 - 1 NO  
 2 - 1 NC  
 3 - 1 NO + 1 NC  
 4 - 2 NO  
 5 - 2 NC  
 Colour (4th Digit) : **R G Y W B A C**



## Mushroom Head Push - Turn

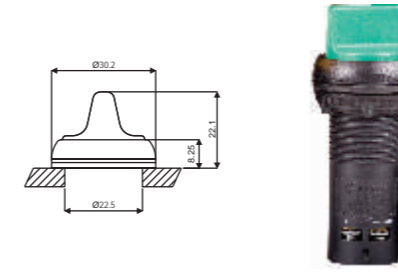
Cat. No. : EE□□MH1  
 Contact Configuration (3rd Digit):  
 1 - 1 NO  
 2 - 1 NC  
 3 - 1 NO + 1 NC  
 4 - 2 NO  
 5 - 2 NC  
 Colour (4th Digit) : **R G Y C**



## Mushroom Head Push - Function

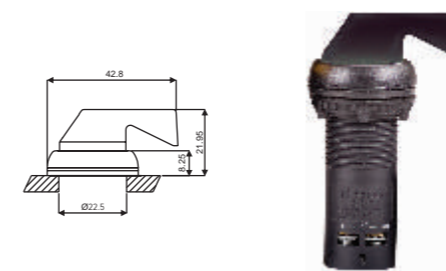
Cat. No. : EE□□MD1  
 Contact Configuration (3rd Digit):  
 1 - 1 NO  
 2 - 1 NC  
 3 - 1 NO + 1 NC  
 4 - 2 NO  
 5 - 2 NC  
 Colour (4th Digit) : **R G Y C**

# EINTEGRAL ACTUATOR



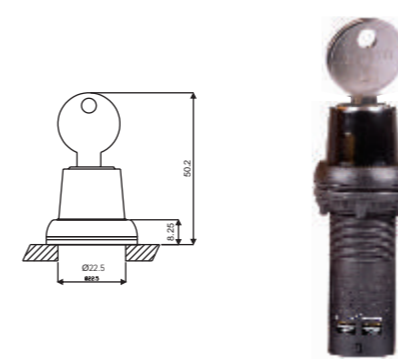
## Symmetric Head Actuator

Cat. No. : **2 Position**  
 Non Spring Return EE□□SK1  
 Spring Return EE□□SI1  
**3 Position**  
 Non Spring Return EE□□SL1  
 Spring Return EE□□SJ1  
 Spring Return L.H. EE□□SM1  
 Spring Return R.H. EE□□SN1  
 Contact Configuration (3rd Digit):  
 1 - 1 NO  
 2 - 1 NC  
 3 - 1 NO + 1 NC (Left NO)  
 4 - 2 NO  
 5 - 2 NC  
 6 - 1 NO + 1 NC (Right NO)  
 Colour (4th Digit) : **R G W C**



## Lever Head

Cat. No. : **2 Position**  
 Non Spring Return EE□□LK1  
 Spring Return EE□□LI1  
**3 Position**  
 Non Spring Return EE□□LL1  
 Spring Return EE□□LJ1  
 Spring Return L.H. EE□□LM1  
 Spring Return R.H. EE□□LN1  
 Contact Configuration (3rd Digit):  
 1 - 1 NO  
 2 - 1 NC  
 3 - 1 NO + 1 NC (Left NO)  
 4 - 2 NO  
 5 - 2 NC  
 6 - 1 NO + 1 NC (Right NO)  
 Colour (4th Digit) : **R G W C**



## Lock & Key Rotary Type

Cat. No. : **2 Position**  
 Non Spring Return EE□□KK1  
 Spring Return EE□□KI1  
**3 Position**  
 Non Spring Return EE□□KL1  
 Spring Return EE□□KJ1  
 Spring Return L.H. EE□□KM1  
 Spring Return R.H. EE□□KN1  
 Contact Configuration (3rd Digit):  
 1 - 1 NO  
 2 - 1 NC  
 3 - 1 NO + 1 NC (Left NO)  
 4 - 2 NO  
 5 - 2 NC  
 6 - 1 NO + 1 NC (Right NO)  
 Colour (4th Digit) : **C**

Note: In 2 position selector actuator, for operating style  replace 6th digit from K to R and for operating style  replace 6th digit from K to T.

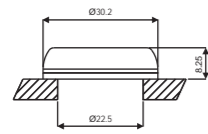
Note: Colours available - R - Red, G - Green, Y - Yellow, W - White/Opal, B - Blue, A - Amber, C - Black

Note: Colours available - R - Red, G - Green, Y - Yellow, W - White/Opal, B - Blue, A - Amber, C - Black

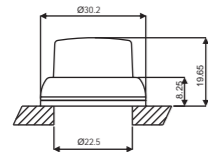


# GEN NEXT NON ILLUMINATED ACTUATOR

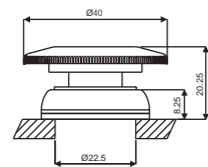
- > Unique & Compact design
- > Screw less, quick & easy assembly
- > Stackable design for Contact Blocks
- > Easy identification for NO / NC Blocks
- > Self wiping contacts
- > IP20 finger-safe screw terminals
- > Special fire retardant Plastic Housings to prevent accidental contact with live circuits
- > Electrical life more than 0.5 million & Mechanical life more than 1.0 million
- > International approvals for worldwide use



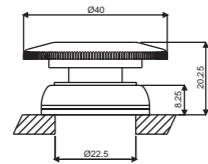
**Flush Head**  
 Cat. No. : EMN□FD1  
 Colour (4th Digit) : **R G C Y W B A**



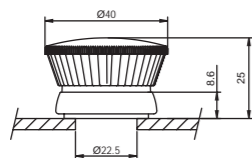
**Projecting Head Push Function**  
 Cat. No. : EMN□PD1  
 Colour (4th Digit) : **R G C Y W B A**



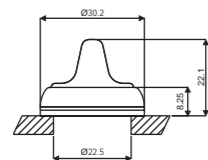
**Mushroom Head Push - Turn Function**  
 Cat. No. : EMN□MH1  
 Colour (4th Digit) : **R G C Y**



**Mushroom Head Push - Function**  
 Cat. No. : EMN□MD1  
 Colour (4th Digit) : **R G C Y**

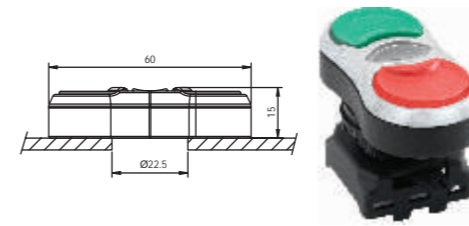


**Push Pull**  
 Cat. No. : EG02MG0R  
 Colour (8th Digit) : **R**

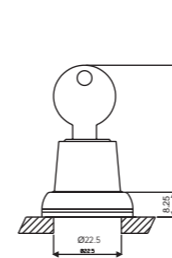


**Symmetric Head**  
 Cat. No. : **2 Position**  
 Non Spring Return EMN□SK1  
 Spring Return EMN□SI1  
**3 Position**  
 Non Spring Return EMN□SL1  
 Spring Return EMN□SJ1  
 Spring Return L.H. EMN□SM1  
 Spring Return R.H. EMN□SN1  
 Colour (4th Digit) : **R G C W**

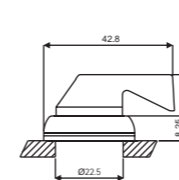
- Note: 1. Actuators & selector actuators with black ABS collar are offered at standard configuration.  
 2. Chrome plated & Brass collar are also available on request.  
 3. For Non-Illuminated Actuator / Selector Actuator at least 1 NO or 1 NC Block required to make a complete Assembly.  
 eg. EMNRFD1 + EC1C makes complete assembly of flush head actuator with 1 NO Block.  
 4. Colours available: R - Red, G - Green, C - Black, Y - Yellow, W - White/Opal, B - Blue, A - Amber



**Twin Touch with Black Centre Strip**  
 Cat. No. : EG02TD01  
 Colour (8th Digit) : Black



**Lock & Key Rotary Type**  
 Cat. No. : **2 Position**  
 Non Spring Return EMN□KK1  
 Spring Return EMN□KI1  
**3 Position**  
 Non Spring Return EMN□KL1  
 Spring Return EMN□KJ1  
 Spring Return L.H. EMN□KM1  
 Spring Return R.H. EMN□KN1  
 Colour (4th Digit) : **C**



**Lever Head**  
 Cat. No. : **2 Position**  
 Non Spring Return EMN□LK1  
 Spring Return EMN□LI1  
**3 Position**  
 Non Spring Return EMN□LL1  
 Spring Return EMN□LJ1  
 Spring Return L.H. EMN□LM1  
 Spring Return R.H. EMN□LN1  
 Colour (4th Digit) : **R C W**

Note: In 2 position selector actuator, for operating style replace 4th digit from K to R and for operating style replace 4th digit from K to T.

# GEN NEXT MODULAR CONTACT BLOCKS



**'NO' BLOCK**  
 Cat. No. : EC1C



**'NC' BLOCK**  
 Cat. No. : EC2C



**LED Holder for Gen Next Series**  
 Cat. No. : EG08HOL□□□□  
 Colour (8th Digit) : **R G Y A B W**  
 Voltage (9th, 10th, 11th & 12th Digit):  
 012 C - 12 V AC/DC  
 024 C - 24 V AC/DC  
 048 C - 48 V AC/DC  
 064 C - 64 V AC/DC  
 110 A - 110 V AC  
 110 D - 110 V DC  
 240 A - 240 V AC  
 220 D - 220 V DC

- Note: 1) Colours available - R - Red, G - Green, C - Black, Y - Yellow, W - White/Opal, B - Blue, A - Amber  
 2) Gen Next Contact Block (EC1C & EC2C) & LED Holder (EG08...) can be used/assembled only with Gen Next Actuators

# TECHNICAL SPECIFICATIONS

## GEN NEXT LED INDICATORS & LED ACTUATOR

Product	16 mm Gen Next LED Indicators	22.5 mm Gen Next LED Indicators	Gen Next LED Actuators
Rated Voltage	12 V AC/DC, 24 V AC/DC, 30 V AC/DC, 48 V AC/DC, 63.5 V AC/DC, 110 V AC/DC, 240 V AC	12 V AC/DC, 24 V AC/DC, 30 V AC/DC, 48 V AC/DC, 63.5 V AC/DC, 110 V AC, 110 V DC, 240 V AC, 220V DC, 415 V AC	12 V AC/DC, 24 V AC/DC, 30 V AC/DC, 48 V AC/DC, 63.5 V AC/DC, 110 V AC, 110 V DC, 240 V AC, 220V DC
Operating Voltage	-20% to +10% of rated voltage	-20% to +10% of rated voltage	-20% to +10% of rated voltage
Type of LED	SMD LEDs	SMD LEDs	SIDE VIEW SMD LEDs
Available Colours	RED/GREEN/YELLOW/AMBER/BLUE/WHITE	RED/GREEN/YELLOW/AMBER/BLUE/WHITE	RED/GREEN/YELLOW/AMBER/BLUE/WHITE
Life	0.1 million burning hour	0.1 million burning hour	0.1 million burning hour
Operating Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Operating Temperature	-30°C to 60°C	-30°C to 60°C	-30°C to 60°C
Storage Temperature	-25°C to 70°C	-25°C to 70°C	-25°C to 70°C
Wire Termination Capacity	0.5 mm <sup>2</sup> , 1.5 mm <sup>2</sup>	0.5mm <sup>2</sup> , 1.5 - 2.5 mm <sup>2</sup>	0.5mm <sup>2</sup> , 1.5 - 2.5 mm <sup>2</sup>
Terminal Torque	0.5 Nm	0.5 Nm	0.5 Nm
LVGP	Available	Available	Available
Surge Test	2KV	2KV	2KV
HV test for 60 sec.	1.5KV	1.5KV	1.5KV
Degree of Protection	Above panel : IP65 For terminals : IP20	Above panel : IP65 For terminals : IP20	Above panel : IP65 For terminals : IP20
International Approvals	CE	CE, UL	CE

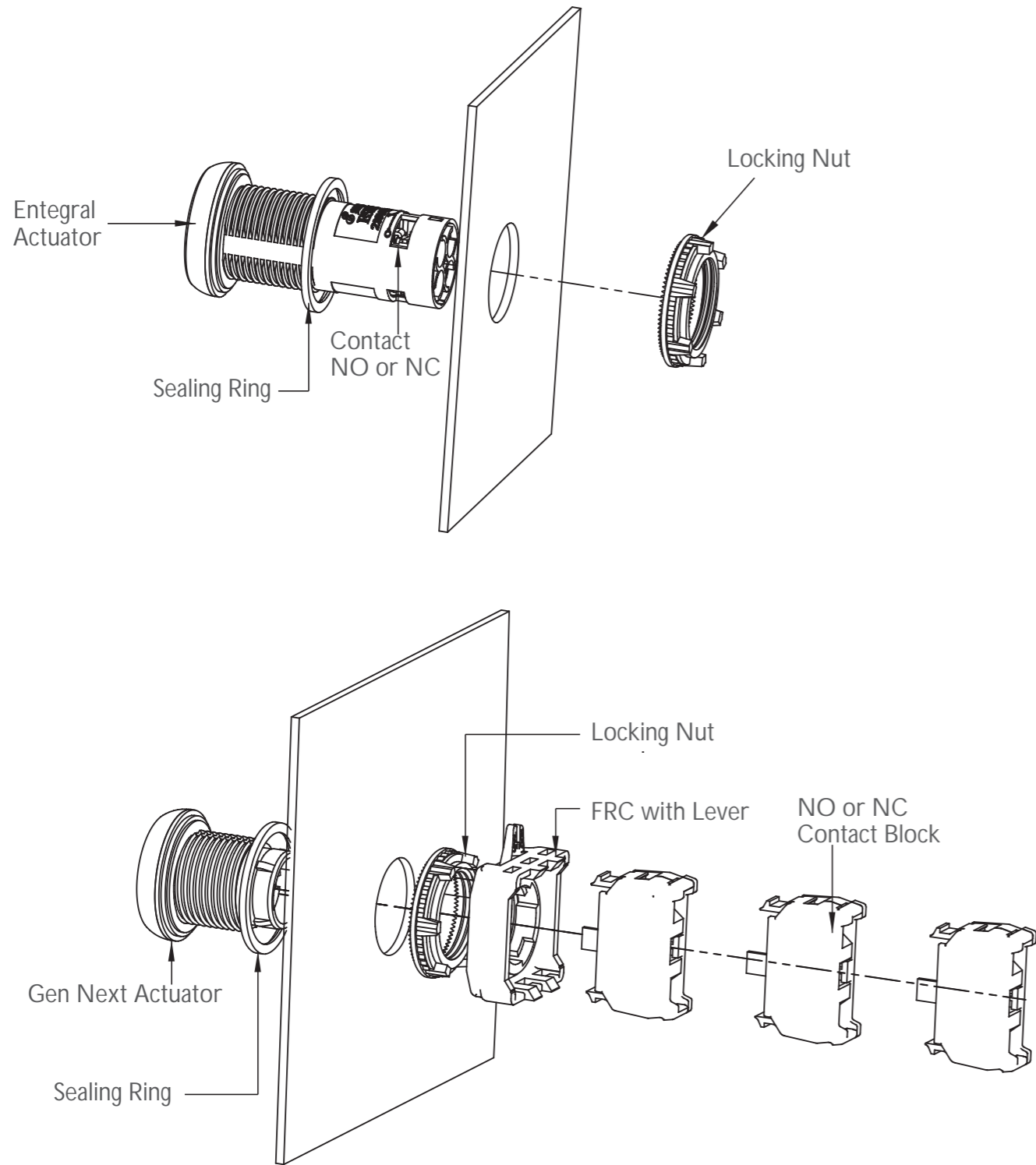
## GEN NEXT INTEGRAL & PUSH BUTTON ACTUATOR

Utilization Category	Supply	IEC - 60947 - 5-1	UL - 508	ITH/Thermal Current
	AC	AC-15	A600	10A
DC	DC-13	P300		
Contact	NO and NC			
Rated Voltage	230V AC	120V AC	24V DC	
Rated Current	2A	6A	1.5A	
Electrical Life for Contact	0.5 million Cycle			
HV Test for 60 Sec	2.5KV (All Terminals Shorted Together)			
Rated insulation Voltage	600 VAC			
Terminals	Suitable for flexible or solid conductors from 2x1 mm <sup>2</sup> to 2x2.5 mm <sup>2</sup>			
Current Carrying Material	Brass			
Contact Type	Make & Break			
Contact Material	AgNi/AGCdo			
Insulation Resistance at 500 VDC	> 50 M Ω			
Contact Resistance	> 20 M Ω			
MV drop at 16 A DC	> 200 MV			
Type	Non Illuminated / Illuminated			
Function	Push, Push - Push, Push turn, Selector			
Colour	RED/GREEN/BLACK/YELLOW/WHITE/BLUE/ORANGE			
Disposition of Contact	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <input type="checkbox"/> Contact Open  <input checked="" type="checkbox"/> Contact Close         </div> </div>			

## GEN NEXT INTEGRAL & PUSH BUTTON ACTUATOR

Environmental Rating	
Operating Temperature	-30°C to 60°C
Storage Temperature	-25°C to 70°C
IP Rating	IP65 above panel (As per IEC/EN -60529) & IP20 for Terminals NEMA 1,2,3,4,4X class 12 & 13
RoHS Compliance	Yes
Mechanical Life for Actuators	
Momentary (Push Button with Push Function)	1 million Operation
Emergency Stop (Turn to Release)	0.1 million Operation
Selector	0.5 million Operation

# EXPLODED VIEW OF ENTEGRAL ACTUATOR & GEN NEXT ACTUATOR



# UL CORRELATION SHEET FOR GEN NEXT ENTEGRAL ACTUATOR

FLUSH HEAD		PROJECTING HEAD PUSH FUNCTION		SYMMETRIC HEAD 2 POSITION		LOCK & KEY 2 POSITION	
Esbee Cat.No.	UL Cat. No.	Esbee Cat.No.	UL Cat.No.	Esbee Cat.No.	UL Cat. No.	Esbee Cat.No.	UL Cat. No.
EE1RFD1	EE02FD1R	EE1RPD1	EE02PD1R	EE1CSK1	EE02SK1C	EE1CKK1	EE02KK1C
EE1GFD1	EE02FD1G	EE1GPD1	EE02PD1G	EE1CSR1	EE02SR1C	EE1CKR1	EE02KR1C
EE1YFD1	EE02FD1Y	EE1YPD1	EE02PD1Y	EE1CSI1	EE02SI1C	EE1CKI1	EE02KI1C
EE1CFD1	EE02FD1C	EE1CPD1	EE02PD1C	EE2CSK1	EE02SK2C	EE2CKK1	EE02KK2C
EE1BFD1	EE02FD1B	EE1BPD1	EE02PD1B	EE2CSR1	EE02SR2C	EE2CKR1	EE02KR2C
EE1WFD1	EE02FD1W	EE1WPD1	EE02PD1W	EE2CSI1	EE02SI2C	EE2CKI1	EE02KI2C
EE1AFD1	EE02FD1A	EE1APD1	EE02PD1A	EE3CSK1	EE02SK3C	EE3CKK1	EE02KK3C
EE2RFD1	EE02FD2R	EE2RPD1	EE02PD2R	EE3CSR1	EE02SR3C	EE3CKR1	EE02KR3C
EE2GFD1	EE02FD2G	EE2GPD1	EE02PD2G	EE3CSI1	EE02SI3C	EE3CKI1	EE02KI3C
EE2YFD1	EE02FD2Y	EE2YPD1	EE02PD2Y	EE4CSK1	EE02SK4C	EE4CKK1	EE02KK4C
EE2CFD1	EE02FD2C	EE2CPD1	EE02PD2C	EE4CSR1	EE02SR4C	EE4CKR1	EE02KR4C
EE2BFD1	EE02FD2B	EE2BPD1	EE02PD2B	EE4CSI1	EE02SI4C	EE4CKI1	EE02KI4C
EE2WFD1	EE02FD2W	EE2WPD1	EE02PD2W	EE5CSK1	EE02SK5C	EE5CKK1	EE02KK5C
EE2AFD1	EE02FD2A	EE2APD1	EE02PD2A	EE5CSR1	EE02SR5C	EE5CKR1	EE02KR5C
EE3RFD1	EE02FD3R	EE3RPD1	EE02PD3R	EE5CSI1	EE02SI5C	EE5CKI1	EE02KI5C
EE3GFD1	EE02FD3G	EE3GPD1	EE02PD3G				
EE3YFD1	EE02FD3Y	EE3YPD1	EE02PD3Y				
EE3CFD1	EE02FD3C	EE3CPD1	EE02PD3C				
EE3BFD1	EE02FD3B	EE3BPD1	EE02PD3B				
EE3WFD1	EE02FD3W	EE3WPD1	EE02PD3W				
EE3AFD1	EE02FD3A	EE3APD1	EE02PD3A				
EE4RFD1	EE02FD4R	EE4RPD1	EE02PD4R				
EE4GFD1	EE02FD4G	EE4GPD1	EE02PD4G				
EE4YFD1	EE02FD4Y	EE4YPD1	EE02PD4Y				
EE4CFD1	EE02FD4C	EE4CPD1	EE02PD4C				
EE4BFD1	EE02FD4B	EE4BPD1	EE02PD4B				
EE4WFD1	EE02FD4W	EE4WPD1	EE02PD4W				
EE4AFD1	EE02FD4A	EE4APD1	EE02PD4A				
EE5RFD1	EE02FD5R	EE5RPD1	EE02PD5R				
EE5GFD1	EE02FD5G	EE5GPD1	EE02PD5G				
EE5YFD1	EE02FD5Y	EE5YPD1	EE02PD5Y				
EE5CFD1	EE02FD5C	EE5CPD1	EE02PD5C				
EE5BFD1	EE02FD5B	EE5BPD1	EE02PD5B				
EE5WFD1	EE02FD5W	EE5WPD1	EE02PD5W				
EE5AFD1	EE02FD5A	EE5APD1	EE02PD5A				

SYMMETRIC HEAD 3 POSITION		LOCK & KEY 3 POSITION	
Esbee Cat.No.	UL Cat. No.	Esbee Cat.No.	UL Cat. No.
EE6CSL1	EE02SL6C	EE3CKL1	EE02KL3C
EE6CSJ1	EE02SJ6C	EE3CKJ1	EE02KJ3C
EE4CSL1	EE02SL4C	EE6CKL1	EE02KL6C
EE4CSJ1	EE02SJ4C	EE6CKJ1	EE02KJ6C
EE5CSL1	EE02SL5C	EE4CKL1	EE02KL4C
EE5CSJ1	EE02SJ5C	EE4CKJ1	EE02KJ4C
		EE5CKL1	EE02KL5C
		EE5CKJ1	EE02KJ5C

MUSHROOM HEAD PUSH FUNCTION		MUSHROOM HEAD PUSH TURN		LEVER HEAD 2 POSITION		LEVER HEAD 3 POSITION	
Esbee Cat.No.	UL Cat. No.	Esbee Cat.No.	UL Cat. No.	Esbee Cat.No.	UL Cat. No.	Esbee Cat.No.	UL Cat. No.
EE1RMD1	EE02MD1R	EE1RMH1	EE02MH1R	EE1CLK1	EE02LK1C	EE3CLL1	EE02LL3C
EE1GMD1	EE02MD1G	EE1GMH1	EE02MH1G	EE1CLI1	EE02LI1C	EE3CLJ1	EE02LJ3C
EE1YMD1	EE02MD1Y	EE1YMH1	EE02MH1Y	EE2CLK1	EE02LK2C	EE6CLL1	EE02LL6C
EE1CMD1	EE02MD1C	EE1CMH1	EE02MH1C	EE2CLI1	EE02LI2C	EE6CLJ1	EE02LJ6C
EE2RMD1	EE02MD2R	EE2RMH1	EE02MH2R	EE3CLK1	EE02LK3C	EE4CLL1	EE02LL4C
EE2GMD1	EE02MD2G	EE2GMH1	EE02MH2G	EE3CLI1	EE02LI3C	EE4CLJ1	EE02LJ4C
EE2YMD1	EE02MD2Y	EE2YMH1	EE02MH2Y	EE4CLK1	EE02LK4C	EE5CLL1	EE02LL5C
EE2CMD1	EE02MD2C	EE2CMH1	EE02MH2C	EE4CLI1	EE02LI4C	EE5CLJ1	EE02LJ5C
EE3RMD1	EE02MD3R	EE3RMH1	EE02MH3R	EE5CLK1	EE02LK5C		
EE3GMD1	EE02MD3G	EE3GMH1	EE02MH3G	EE5CLI1	EE02LI5C		
EE3YMD1	EE02MD3Y	EE3YMH1	EE02MH3Y				
EE3CMD1	EE02MD3C	EE3CMH1	EE02MH3C				
EE4RMD1	EE02MD4R	EE4RMH1	EE02MH4R				
EE4GMD1	EE02MD4G	EE4GMH1	EE02MH4G				
EE4YMD1	EE02MD4Y	EE4YMH1	EE02MH4Y				
EE4CMD1	EE02MD4C	EE4CMH1	EE02MH4C				
EE5RMD1	EE02MD5R	EE5RMH1	EE02MH5R				
EE5GMD1	EE02MD5G	EE5GMH1	EE02MH5G				
EE5YMD1	EE02MD5Y	EE5YMH1	EE02MH5Y				
EE5CMD1	EE02MD5C	EE5CMH1	EE02MH5C				

Note: 1) In Gen Next Actuator FRC can accommodate 3 NO/NC or 2 NO/NC with 1 LED Holder  
 2) In Gen Next Actuator FRC can accommodate 3 NO/NC + 3 NO/NC or 2NO/NC + 2NO/NC with 1 LED Holder

## UL CORRELATION SHEET FOR GEN NEXT MODULAR ACTUATOR

CONTACT BLOCKS	
Esbee Cat.No.	UL Cat. No.
EC1C	EG08001C
EC2C	EG08002C

FLUSH HEADS	
Esbee Cat.No.	UL Cat. No.
EMNRFD1	EG02FD0R00
EMNGFD1	EG02FD0G00
EMNYFD1	EG02FD0Y00
EMNCFD1	EG02FD0C00
EMNBFD1	EG02FD0B00
EMNWF1	EG02FD0W00
EMNAFD1	EG02FD0A00

PROJECTING HEAD	
Esbee Cat.No.	UL Cat. No.
EMNRPD1	EG02PD0R00
EMNGPD1	EG02PD0G00
EMNYPD1	EG02PD0Y00
EMNCPD1	EG02PD0C00
EMNBPD1	EG02PD0B00
EMNWP1	EG02PD0W00
EMNAPD1	EG02PD0A00

MUSHROOM HEAD PUSH FUNCTION	
Esbee Cat.No.	UL Cat. No.
EMNRMD1	EG02MD0R00
EMNGMD1	EG02MD0G00
EMNYMD1	EG02MD0Y00
EMNCMD1	EG02MD0C00

MUSHROOM HEAD PUSH TURN	
Esbee Cat.No.	UL Cat. No.
EMNRMH1	EG02MH0R00
EMNGMH1	EG02MH0G00
EMNYMH1	EG02MH0Y00
EMNCMH1	EG02MH0C00

SYMMETRIC HEAD	
Esbee Cat.No.	UL Cat. No.
EMNCSK1	EG02SK0C00
EMNCSR1	EG02SR0C00
EMNCST1	EG02ST0C00
EMNCSL1	EG02SL0C00
EMNCSI1	EG02SI0C00
EMNCSJ1	EG02SJ0C00

LEVER HEAD	
Esbee Cat.No.	UL Cat. No.
EMNCLK1	EG02LK0C00
EMNCLR1	EG02LR0C00
EMNCLT1	EG02LT0C00
EMNCLL1	EG02LL0C00
EMNCLI1	EG02LI0C00
EMNCLJ1	EG02LJ0C00

LOCK & KEY	
Esbee Cat.No.	UL Cat. No.
EMNCKK1	EG02KK0C00
EMNCKR1	EG02KR0C00
EMNCKT1	EG02KT0C00
EMNCKL1	EG02KK0C00
EMNCKI1	EG02KI0C00
EMNCKJ1	EG02KJ0C00



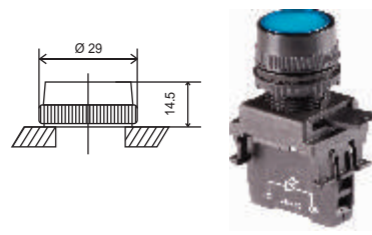
## STANDARD SERIES

- Push Button Actuator
  - Illuminated (LED)
  - Non Illuminated
    - TEEKAY
    - Modular
- Led holder & contact block
- Accessories
- Technical specifications
- Exploded View

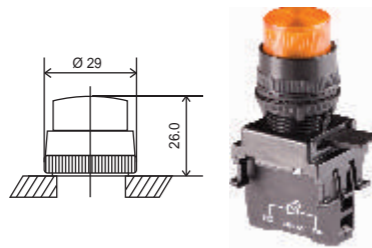


# LED ACTUATORS

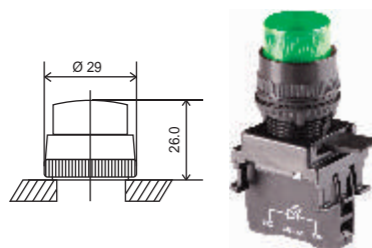
- > SMD LED technology
- > Uniform Illumination
- > Snap fit & easy assembly
- > Wide voltage range
- > Operating life more than 0.1 million Burning hrs
- > IP 20 Terminal protection & IP 65
- > Available in six colors
- > Available with all actuators (Flush head, Projecting Head & Selector actuators)
- > Passes surge test 2 KV & HV test of 1.5KV



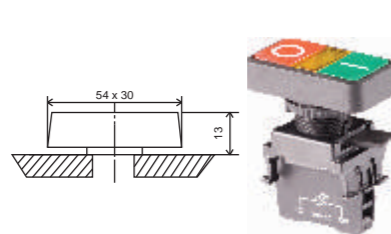
**Flush Head**  
 Cat. No. : EAL□□□□FD1  
 Colour (4th Digit) : **R G Y A B W**  
 Voltage (5th, 6th, 7th & 8th Digit):  
 012 C - 12 V AC/DC  
 024 C - 24 V AC/DC  
 048 C - 48 V AC/DC  
 064 C - 64 V AC/DC  
 110 A - 110 V AC  
 110 D - 110 V DC  
 240 A - 240 V AC  
 220 D - 220 V DC



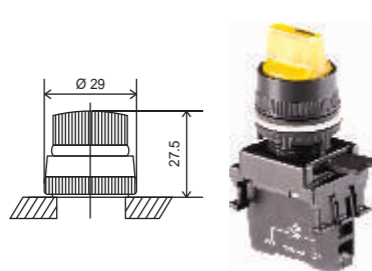
**Projecting Head Push Function**  
 Cat. No. : EAL□□□□PD1  
 Colour (4th Digit) : **R G Y A B W**  
 Voltage (5th, 6th, 7th & 8th Digit):  
 012 C - 12 V AC/DC  
 024 C - 24 V AC/DC  
 048 C - 48 V AC/DC  
 064 C - 64 V AC/DC  
 110 A - 110 V AC  
 110 D - 110 V DC  
 240 A - 240 V AC  
 220 D - 220 V DC



**Projecting Head Push - Push Function**  
 Cat. No. : EAL□□□□PF1  
 Colour (4th Digit) : **R G Y A B W**  
 Voltage (5th, 6th, 7th & 8th Digit):  
 012 C - 12 V AC/DC  
 024 C - 24 V AC/DC  
 048 C - 48 V AC/DC  
 064 C - 64 V AC/DC  
 110 A - 110 V AC  
 110 D - 110 V DC  
 240 A - 240 V AC  
 220 D - 220 V DC



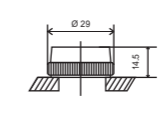
**Twin Touch**  
 Cat. No. : EAL□□□□TD1  
 Colour (4th Digit) : **Y A**  
 Voltage (5th, 6th, 7th & 8th Digit):  
 012 C - 12 V AC/DC  
 024 C - 24 V AC/DC  
 048 C - 48 V AC/DC  
 064 C - 64 V AC/DC  
 110 A - 110 V AC  
 110 D - 110 V DC  
 240 A - 240 V AC  
 220 D - 220 V DC



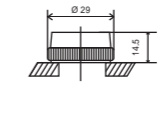
**Selector Actuator with Gen Next LED**  
 Cat. No. : **2 Position**  
 Non Spring Return EAL□□□□SK1 Colour (4th Digit) : **R G Y A B W**  
 Spring Return EAL□□□□SI1 Voltage  
**3 Position**  
 Non Spring Return EAL□□□□SL1 (5th, 6th, 7th & 8th Digit):  
 Spring Return EAL□□□□SJ1 012 C - 12 V AC/DC  
 Spring Return L.H. EAL□□□□SM1 024 C - 24 V AC/DC  
 Spring Return R.H. EAL□□□□SN1 048 C - 48 V AC/DC  
 064 C - 64 V AC/DC  
 110 A - 110 V AC  
 110 D - 110 V DC  
 240 A - 240 V AC  
 220 D - 220 V DC

Note\* : 1) In 2 position selector actuator, for operating style replace 10th digit from K to R and for operating style replace 10th digit from K to T.  
 2) LED holder is part of Actuator. Please order contact block HC61A2 and HC61B2 separately.  
 3) Colours available for illuminated Actuator R - Red, G - Green, Y - Yellow, W - White/Opal, B - Blue, A - Amber

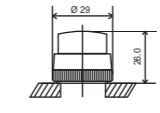
# TEEKAY SERIES



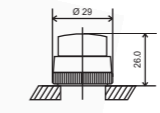
**Flush head Push Button with 1 NC Block**  
 Cat. No. : TD1□AB2  
 Colour (4th Digit) : **1 2 3 4 5 6 7**



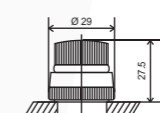
**Flush head Push Button with 1 NO Block**  
 Cat. No. : TD1□AA2  
 Colour (4th Digit) : **1 2 3 4 5 6 7**



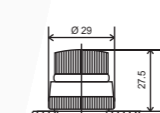
**Projecting head Push Button with 1 NC Block**  
 Cat. No. : TD4□AB2  
 Colour (4th Digit) : **1 2 3 4 5 6 7**



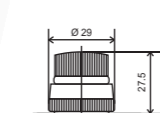
**Projecting head Push Button with 1 NO Block**  
 Cat. No. : TD4□AA2  
 Colour (4th Digit) : **1 2 3 4 5 6 7**



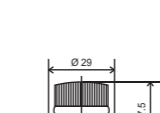
**Symmetric head 2 position selector switch (NSR) Black with 1 NC Block**  
 Cat. No. : TK63AB2  
 Colour (4th Digit) : **3**



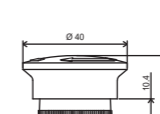
**Symmetric head 2 position selector switch (NSR) Black with 1 NO Block**  
 Cat. No. : TK63AA2  
 Colour (4th Digit) : **3**



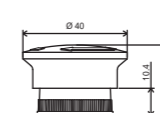
**Symmetric head 2 position selector switch (SR) Black with 1 NC Block**  
 Cat. No. : TI63AB2  
 Colour (4th Digit) : **3**



**Symmetric head 2 position selector switch (SR) Black with 1 NO Block**  
 Cat. No. : TI63AA2  
 Colour (4th Digit) : **3**



**Mushroom Head Push Turn Actuator with 1 NO or NC Block**  
 Cat. No. : TH5□AB2  
 : TH5□AA2  
 Colour (4th Digit) : **1 2 3 4**  
 Auxiliary Contacts : B2 for NC & A2 for NO

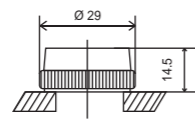


**Mushroom Head Push Function Actuator with 1 NO or NC Block**  
 Cat. No. : TD5□AB2  
 : TD5□AA2  
 Colour (4th Digit) : **1 2 3 4**  
 Auxiliary Contacts : B2 for NC & A2 for NO

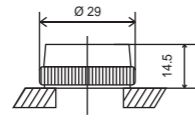
Note: Colours available -  
 1 - Red, 2 - Green, 3 - Black, 4 - Yellow, 5 - White/Opal, 6 - Blue, 7 - Orange

# PUSH BUTTON ACTUATORS

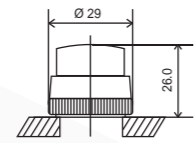
## Ø 22.5 mm



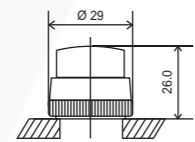
**Flush Head Non Illuminated**  
 Cat. No. : HD15C□  
 Colour (6th Digit) : 1 2 3 4 5 6 7



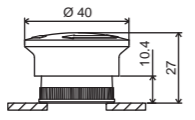
**Flush Head Non Illuminated with Rod**  
 Cat. No. : EH02FD9□0000  
 Colour (8th Digit) : 1 2 3 4 5 6 7



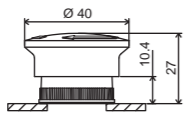
**Projecting Head 'Push Function' Non Illuminated**  
 Cat. No. : HD45C□  
 Colour (6th Digit) : 1 2 3 4 5 6 7



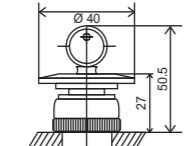
**Projecting Head 'Push - Push Function' Non Illuminated**  
 Cat. No. : HF45C□  
 Colour (6th Digit) : 1 2 3 4 5 6 7



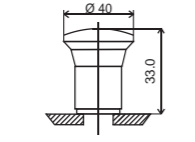
**Mushroom Head Ø 40 mm 'Push Function' Non Illuminated**  
 Cat. No. : HD55C□  
 Colour (6th Digit) : 1 2 3 4



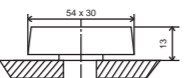
**Mushroom Head Shrouded Ø 40 mm 'Push Turn' Non Illuminated**  
 Cat. No. : HH55C□  
 Colour (6th Digit) : 1 2 3 4



**Mushroom Head with Lock & Key Non Illuminated**  
 Cat. No. : HQ55C□  
 Colour (6th Digit) : 1 2 3 4



**Mushroom Head 'Push Pull' Non Illuminated**  
 Cat. No. : HG55B□  
 Colour (6th Digit) : 1 2 3 4



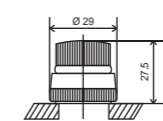
**Twin Touch Non Illuminated**  
 Cat. No. : HD15G3  
 Colour (6th Digit) : 3

**Twin Touch Illuminated**  
 Cat. No. : HD16G□  
 Colour (6th Digit) : 4 7 8  
 (Colour of Center Indication Strip)

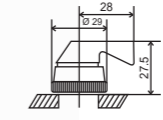
**Note:**

- All Actuators are offered with Standard black ABS collar. Eg. : HD15C□1
- All Actuators (except Mushroom Head & Twin touch) are also available with chrome plated ABS & Brass collar.  
 - For Chrome plated ABS Collar replace 5th digit C by A Eg. : HD15A□1  
 - For Brass Collar replace C by B Eg. : HD15B□1
- For all Non-Illuminated Actuators at least 1 NO or NC Block required to make a complete Assembly. Eg. HD15C1 + HC61A2 makes complete assembly of flush head actuator with 1 NO Block.
- For all Illuminated Actuators at least 1 LED Holder / Bulb Holder required to make a complete Assembly. NO or NC Blocks can be added as per requirement.  
 \* For Spare LED Holder refer page no. 7
- Colours available -  
 1 - Red, 2 - Green, 3 - Black, 4 - Yellow,  
 5 - White/Opal, 6 - Blue, 7 - Orange, 8 - Colourless

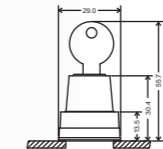
# SELECTOR ACTUATORS



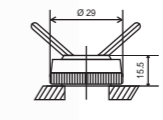
**Symmetric Head Non Illuminated**  
 Cat. No. : 2 Position  
 Non Spring Return HK65C□  
 Spring Return HI65C□  
 3 Position  
 Non Spring Return HL65C□  
 Spring Return HJ65C□  
 Spring Return L.H. HM65C□  
 Spring Return R.H. HN65C□  
 Colour (6th Digit) : 1 2 3 5



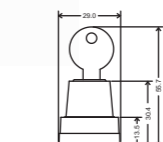
**Lever Head Non Illuminated**  
 Cat. No. : 2 Position  
 Non Spring Return HK75C□  
 Spring Return HI75C□  
 3 Position  
 Non Spring Return HL75C□  
 Spring Return HJ75C□  
 Spring Return L.H. HM75C□  
 Spring Return R.H. HN75C□  
 Colour (6th Digit) : 1 3 5



**Lock & Key Rotary Type Non Illuminated\*\***  
 Cat. No. : 2 Position  
 Non Spring Return HK85C3  
 Spring Return HI85C3  
 3 Position  
 Non Spring Return HL85C3  
 Spring Return HJ85C3  
 Spring Return L.H. HM85C3  
 Spring Return R.H. HN85C3  
 Colour (6th Digit) : 3



**Tip Head Non Illuminated**  
 Cat. No. : HP95C□  
 Colour (6th Digit) : 1 2 3 5



**Lock & Key Push Turn**  
 Cat. No. : HH85C3  
 Colour (6th Digit) : 3

Note\*: In 2 position selector actuator, for operating style replace 2nd digit from K to R and for operating style replace 2nd digit from K to T.

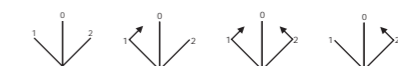
\*\* For Lock & Key Actuators, various combinations for Key removal Positions are available i.e. Left, Right or Both.

Note: Colours available (Except Lock & Key)-  
 1 - Red, 2 - Green, 3 - Black, 4 - Yellow,  
 5 - White/Opal, 6 - Blue, 7 - Orange

**2 POSITION**



**3 POSITION**



# ACCESSORIES FOR ACTUATORS

## MODULAR CONTACT BLOCKS



**NO Block**  
Cat. No. : HC61A2



**NC Block**  
Cat. No. : HC61B2



**LED Holder**  
Cat. No. : EHL□□□□□  
Colour (4th Digit) : **R G Y A B W**  
Voltage (5th, 6th, 7th & 8th Digit):  
012 C - 12 V AC/DC  
024 C - 24 V AC/DC  
048 C - 48 V AC/DC  
064 C - 64 V AC/DC  
110 A - 110 V AC  
110 D - 110 V DC  
240 A - 240 V AC  
220 D - 220 V DC

## ACCESSORIES FOR STANDARD SERIES



**First Row Clip**  
Cat. No. : HC922002



**Single Leg Clip**  
Cat. No. : HE102000



**Second Row Clip  
(For Vertical Cascading)**  
Cat. No. : HC122030



**Side Row Clip  
(For Horizontal Cascading)**  
Cat. No. : HC929002

**Note :** First Row Clip is Included in all Actuators and Selector Actuators Assemblies except TEEKAY series.



**Center Indication Strip** (for Twin Touch Actuator)

Colour	Cat. No.
Black	HB102058
Yellow	HB105163
Orange	HB108169
Colourless	HB100161

### Shroud for Actuator



Colour	Cat. No.
Red	HH152002
Green	HH153003
Black	HH154004
Yellow	HH155005
Colourless	HH150100

## COMMON ACCESSORIES FOR GEN NEXT AND STANDARD SERIES



**Fixing Device**

Cat. No. : HH192000

### Spare Lens Cap for Flush Head Non Illuminated Actuators



Colour	Cat. No.
Red	HB103002
Green	HB104000
Black	HB102006
Yellow	HB105008
White/Opal	HB101004
Blue	HB107010
Orange	HB108012



**COLLAR** (for Flush/Projecting Head)

Colour	Standard Series Cat. No.	Gen Next Series Cat. No.
Chrome Plated 'ABS'	HB192000	HB192006
Black 'ABS'	HB196000	HB192003
'BRASS'	HB326000	HB192002



**Adaptor Ring** (For 30 to 22mm in Panel Cutout conversion)

Colour	Cat. No.
Gray	HH180000
Chrome Plated 'ABS'	HH182004
Black 'ABS'	HH196006



**Blanking Plugs**

Colour	Cat. No.
Gray	HH180002
Black 'ABS'	HH182009
Chrome Plated 'ABS'	HH196010

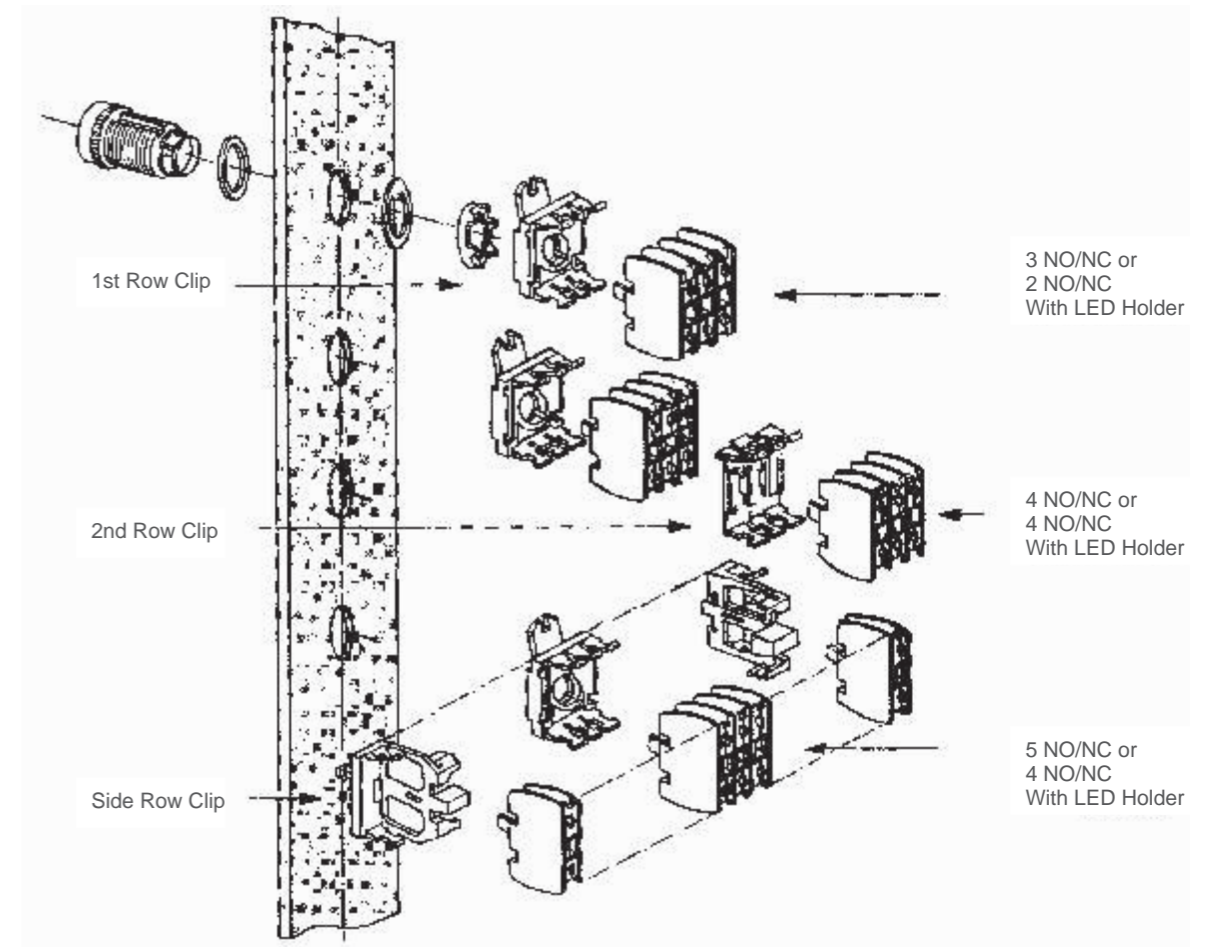
# TECHNICAL SPECIFICATIONS

## STANDARD SERIES PUSH BUTTON ACTUATOR

Utilization Category	Supply	IEC - 60947-5-1	UL-508	ITH/Thermal Current		
	AC	AC-15	A600	10A		
	DC	DC-13	P300			
Contact	NO and NC					
Rated Voltage	230V AC	500V AC	24V DC	OR	120V AC	600V AC
Rated Current	6A	2A	1.5A		6A	1.2A
Electrical Life for Contact	0.5 million Cycle					
HV Test for 60 Sec	2.5KV (All Terminals Shorted Together)					
Rated insulation Voltage	600 VAC					
Terminals	Suitable for flexible or solid conductors from 2x1 mm 2 to 2x2.5 mm <sup>2</sup>					
Current Carrying Material	Brass					
Contact Type	Make & Break					
Contact Material	AgNi/AGCdo					
Insulation Resistance at 500 VDC	> 50 M $\Omega$					
Contact Resistance	> 20 M $\Omega$					
MV drop at 16 A DC	> 200 MV					
Type	Non Illuminated / Illuminated					
Function	Push, Push - Push, Push turn, Selector					
Colour	RED/GREEN/BLACK/YELLOW/WHITE/BLUE/ORANGE					
Disposition of Contact	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <input type="checkbox"/> Contact Open  <input checked="" type="checkbox"/> Contact Close         </div> <div style="margin-right: 10px;">           NC            NO         </div> <div style="text-align: center;"> <p>Stroke (mm)</p> </div> </div>					

Environmental Rating	
Operating Temperature	-30°C to 60°C
Storage Temperature	-25°C to 70°C
IP Rating	IP65 above panel (As per IEC/EN -60529) & IP20 for Terminals
RoHS Compliance	Yes
Mechanical Life for Actuators	
Momentary (Push Button with Push Function)	1 million Operation
Emergency Stop (Turn to Release)	0.1 million Operation
Emergency Stop (Push Pull Type)	0.5 million Operation
Selector	0.5 million Operation

# EXPLODED VIEW OF MODULAR BLOCK ASSEMBLIES









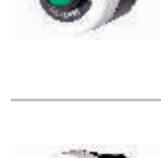














# PUSH BUTTON STATIONS / ENCLOSURES

- Gen Next Series
- Technical Specification of Gen Next Series
- Standard Series
- Accessories for Standard series
- Technical Specification of Standard series



# GEN NEXT PUSH BUTTON STATIONS


- > Sleek, Compact & Unique design
- > Rounded ergonomic Enclosure
- > Good Aesthetics, occupies less space
- > Easy to grip, assemble & operate
- > Robust & maintenance free
- > Special fire retardant engineering plastic used to make it Light, corrosion resistive & non-conductive to heat
- > Comply with safety IEC standards with IP65 Ingress protection
- > Available range of Enclosures: Single, Two, Three, Four, Six & Eight Station
- > Indoor & Outdoor use
- > Available in standard configuration of Actuators & LED Indicators

 <p>Flush Head Actuator - Red with Legend - STOP, Contact - 1 'NC' Cat. No. : EP1FAC01</p>  <p>Flush Head Actuator - Green with Legend - START, Contact - 1 'NO' Cat. No. : EP1FAB02</p>	 <p>LED Indicator 240V AC - Red (Station One)</p>  <p>Flush Head Actuator - Green with Legend - START, Contact - 1 'NO' (Station Two) Cat. No. : EP3FAUI1X0201</p>  <p>Flush Head Actuator - Red with Legend - STOP, Contact - 1 'NC' (Station Three) Cat. No. : EP3FAUI1X0201</p>
 <p>Two Position Symmetric Head Selector Switch - Black with Legend - OFF / ON, Contact - 1 'NO' Cat. No. : EP1FAF08</p>  <p>Two Position Lock &amp; Key Rotary Switch with Legend - OFF / ON, Contact - 1 'NO' Cat. No. : EP1FAF12</p>	 <p>Flush Head Actuator - Green with Legend - FORWARD, Contact - 1 'NO' (Station Two)</p>  <p>Flush Head Actuator - Red with Legend - STOP, Contact - 1 'NC' (Station Two)</p>  <p>Flush Head Actuator - Green with Legend - REVERSE, Contact - 1 'NO' (Station Three) Cat. No. : EP3FAR020102</p>
 <p>Mushroom Head Actuator 'Push Function' with Legend - STOP, Contact - 1 'NC' for Stop Cat. No. : EP1FAC03</p>  <p>Mushroom Head Actuator 'Push Turn Type' with Legend - STOP, Contact - 1 'NC' for Stop Cat. No. : EP1FAC05</p>	 <p>Flush Head Actuator - Green with Legend - UP, Contact - 1 'NO' (Station Two)</p>  <p>Flush Head Actuator - Red with Legend - STOP, Contact - 1 'NC' (Station Two)</p>  <p>Flush Head Actuator - Green with Legend - DOWN, Contact - 1 'NO' (Station Three) Cat. No. : EP3FAS020102</p>
 <p>Flush Head Actuator - Green with Legend - START, Contact - 1 'NO' (Station One)</p>  <p>Flush Head Actuator - Red with Legend - STOP, Contact - 1 'NC' (Station Two) Cat. No. : EP2FAH0201</p>	 <p>All 7 Flush Head Actuators with NO Contact &amp; Mushroom Head Push Turn Cat. No. : EP8F02</p>
 <p>Flush Head Actuator - Green with Legend - START, Contact - 1 'NO' (Station One)</p>  <p>Mushroom Head Actuator 'Push Turn Type' with Legend - STOP, Contact - 1 'NC' (Station Two) Cat. No. : EP2FAH0205</p>	

Note: All Gen Next Push Button Stations are assembled with Entegral Actuators  
All Gen Next Enclosures can be assembled only with Entegral Actuators



All 7 Flush Head Actuators with NO Contact & Mushroom Head Push Turn with Hanging Provision  
Cat. No. : EP8F04

Single Station Enclosure Box without Actuator Cat. No. : EP1FAA	
Two Station Enclosure Box without Actuator Cat. No. : EP2FAA	
Three Station Enclosure Box without Actuator Cat. No. : EP3FAA	
Eight Station Enclosure Box without Actuator Cat. No. : EP8FAA	

## TECHNICAL SPECIFICATION OF GEN NEXT PUSH BUTTON STATION / ENCLOSURE

1. Degree of Protection : IP 65 for Push Button Enclosure with Indicators & Actuators
2. Safety : Fully isolated to hose electrical & electronic equipment w.r.t. protection against electric shock.
3. Material :
  - Bottom Cover : Tough, Impact resistant & fire retardant ABS.
  - Top Cover : Tough, Impact resistant & fire retardant ABS.
  - Gasket : Nitrile rubber, which is good resistant to Oil & acids.
  - Screws : Half threaded Self tapping Cold Forged Screws with blacodising.

### 4. Dimensions:

Type of Enclosure	Single	Two	Three	Eight
Size in mm (Length, Width, Depth)	65x55x33	100x55x53	134x55x53	305x55x53

Screw Size for wall Mounting : M3.5 mm Insertion of Screws directly through base cover.  
Maintenance: Do not need any particular maintenance. If necessary, soap, and water can be used for cleaning. If detergent is used, enclosure should be rinsed well clean water. Do not use any solvents to clean the enclosures.

Chemical resistance : ABS Products are almost completely resistant to aqueous acids, alkalis and salts, Concentrated phosphoric and hydrochloric acids have little effect. Low KB solvents, alcohols and animal / vegetable / mineral oils produce insignificant changes. Aromatic or chlorinated hydrocarbons and high KB solvents cause marked swelling. Esters ketones and unsaturated alkalis are solvents for ABS and should not be used.  
Temperature Range: Long term exposure to temperatures above 70°C should be avoided. No significant change in impact strength is noticed up to -20°C.

# PUSH BUTTON STATIONS (in gray ABS)



Flush Head Actuator - Red with Legend - STOP, Contact - 1 'NC'  
Cat. No. : JAA10000



Flush Head Actuator - Green with Legend - START, Contact - 1 'NO'  
Cat. No. : JAB20000



Illuminated Actuator - Red with Legend - OFF Contact - 1 'NC' Bulb Holder with Bulb 240V AC  
Cat. No. : JAC50000



Illuminated Actuator - Green with Legend - ON Contact - 1 'NO' Bulb Holder with Bulb 240V AC  
Cat. No. : JAD60000



Two Position Symmetric Head Selector Switch - Black with Legend - OFF / ON, Contact - 1 'NO'  
Cat. No. : JAH20000



Two Position Lock & Key Rotary Switch with Legend - OFF / ON, Contact - 1 'NO'  
Cat. No. : JAI20000



Mushroom Head Actuator 'Push Function' with Legend - STOP, Contact - 1 'NC' for Stop  
Cat. No. : JAE10000



Mushroom Head Actuator 'Push Turn Type' with Legend - STOP, Contact - 1 'NC' for Stop  
Cat. No. : JAF10000



Mushroom Head Actuator with Lock & Key and Legend - STOP, Contact - 1 'NC' for Stop  
Cat. No. : JAG10000



Mushroom Head 'Push Pull' and Legend - STOP, Contact - 1 'NC' for Stop  
Cat. No. : TJ51AB2

# PUSH BUTTON STATIONS (in gray ABS)



Flush Head Actuator - Green with Legend - START Contact - 1 'NO' (Station One)



Flush Head Actuator - Red with Legend - STOP Contact - 1 'NC' (Station Two)  
Cat. No. : JBB2A100



Flush Head Actuator - Green with Legend - START Contact - 1 'NO' (Station One)  
Mushroom Head Actuator 'Push Turn Type' with Legend - STOP Contact - 1 'NC' (Station Two)  
Cat. No. : JBB2F100



Flush Head Actuator - Green with Legend - START Contact - 1 'NO' (Station One)



Mushroom Head Lock & Key Actuator with Legend - STOP Contact - 1 'NC' (Station Two)  
Cat. No. : JBB2G100



Pilot Light 240V AC Colourless Lens (Station One)



Flush Head Actuator - Green with Legend - START Contact - 1 'NO' (Station Two)



Flush Head Actuator - Red with Legend - STOP Contact - 1 'NC' (Station Three)  
Cat. No. : JCZ4B2A1



Flush Head Actuator - Green with Legend - FORWARD, Contact - 1 'NO' (Station One)



Flush Head Actuator - Red with Legend - STOP, Contact - 1 'NC' (Station Two)



Flush Head Actuator - Green with Legend - REVERSE Contact - 1 'NO' (Station Three)  
Cat. No. : JDB2A1B2



Flush Head Actuator - Green  
with Legend - UP  
Contact - 1 'NO' (Station One)

Flush Head Actuator - Red  
with Legend - STOP  
Contact - 1 'NC' (Station Two)

Flush Head Actuator - Green  
with Legend - DOWN  
Contact - 1 'NO' (Station Three)

Cat. No. : JEB2A1B2

#### Push Button Station Enclosures



All Gray 1 hole of Ø22.5  
Cat. No. : HF999004

All Gray & 2 hole of Ø22.5  
Cat. No. : HF999005

All Gray & 3 holes of Ø22.5  
Cat. No. : HF999003

Single hole yellow cover & Gray Base  
Cat. No. : HF995001



**1 Station Enclosure**  
(maximum 4 NO/NC)

Cat. No. : HF999026



#### All Purpose Enclosures

All Gray Without hole  
Cat. No. : HF999000

All Gray & 1 hole of Ø22.5  
Cat. No. : HF999001

All Gray & 2 holes of Ø22.5  
Cat. No. : HF999002



**4 Station Enclosure**  
(maximum 3 NO/NC per push button)

Cat. No. : HF999024

## ACCESSORIES FOR PUSH BUTTON STATION



#### Spare Contact Block (for Push Button Stations)

'NO' Contact Block  
Cat. No. : HC42A2

'NC' Contact Block  
Cat. No. : HC42B2



1 'NO' + 1 NC Contact Block  
Cat. No. : HC42C2

2 'NO' Contact Block  
Cat. No. : HC42D2

2 'NC' Contact Block  
Cat. No. : HC42E2



#### Metal Plates - Spare

Cat. No. : HH2420124

**Note:** Printing as per customer requirement



#### Protecting Shroud

Cat. No. : HF195004



#### Protecting Shroud for Selector Actuator

Cat. No. : HB105006



#### Yellow legend plate

Cat. No. : HB135000

## TECHNICAL SPECIFICATION OF STANDARD SERIES PUSH BUTTON STATION / ENCLOSURE

1. Degree of Protection : IP 65 for Push Button Enclosure with Indicators & Actuators
2. Safety : Fully isolated to hose electrical & electronic equipment w.r.t. protection against electric shock.
3. Material :
  - Bottom Cover : Tough, Impact resistant & fire retardant ABS.
  - Top Cover : Tough, Impact resistant & fire retardant ABS.
  - Gasket : Nitrile rubber, which is good resistant to Oil & acids.
  - Screws : Half threaded Self tapping Cold Forged Screws with blacodising.

#### 4. Dimensions:

Type of Enclosure	Single	Two	Three	Four	All Purpose
Size in mm (Length, Width, Depth)	74 x 70 x 48.5	107 x 70 x 48.5	140 x 70 x 48.5	170 x 85 x 80	110 x 80 x 65

Screw Size for wall Mounting : M3.5 mm Insertion of Screws directly through base cover.  
Maintenance: Do not need any particular maintenance. If necessary, soap, and water can be used for cleaning. If detergent is used, enclosure should be rinsed well clean water. Do not use any solvents to clean the enclosures.

Chemical resistance : ABS Products are almost completely resistant to aqueous acids, alkalis and salts, Concentrated phosphoric and hydrochloric acids have little effect. Low KB solvents, alcohols and animal / vegetable / mineral oils produce insignificant changes. Aromatic or chlorinated hydrocarbons and high KB solvents cause marked swelling. Esters ketones and unsaturated alkalis are solvents for ABS and should not be used.

Temperature Range: Long term exposure to temperatures above 70°C should be avoided. No significant change in impact strength is noticed up to -20°C.

**Note:** • Single, Two, Three Push Button Stations contains base mounted contact blocks (HC42A2 & HC42B2).  
• For converting All purpose enclosure and Four Station into Push Button Station please use Modular Contact Block (HC61A2 & HC61B2).

# Ø 22.5mm PANEL MOUNT USB CONNECTOR



## Technical Specifications

Connector Type	Panel Mount USB Type A Female & Type A Male Connector Panel Mount USB Type A Female & Type B Male Connector Panel Mount USB Type A Female & Micro Male Connector Panel Mount USB Type A Female & Mini Male Connector Panel Mount USB Female to USB Female
Cable	24 AWG Standard
Hv Test for 60 sec.	1 KV
Storage Temperature	-5°C to 85°C
Operating Temperature	0°C to 90°C
Degree Of Protection	IP65 with Cap
Insulation Resistance	> 1 M ohm
Voltage Rating	30V DC
Current Rating	1.5A / Contact Terminal
Connector Mate & Unmate Force	"Mate Force : 3.57Kgf Unmate Force : 1.2Kgf"
Contact	Copper Alloy C2680

Note: Any combination of Connector is available as per customer requirement.

## Applications:

- Used For Panel Mount Application In,
- PLC (Programable Logic Controller)
  - Medical Equipment
  - Data Transmitter / Receiver
  - Data Logger
  - Servo Drive / HMI Communication

## Ø 22.5mm Panel Mount USB Connector

Cat. No. : IDA01A□□□  
Colour (7th Digit) :

- A** - Ø22.5mm Panel Mount USB Type A Female & Type A Male Connector, Black ABS Collar & EPDM USB Cover, 1mtr Cable
- B** - Ø22.5mm Panel Mount USB Type A Female & Type B Male Connector, Black ABS Collar & EPDM USB Cover, 1mtr Cable
- C** - Ø22.5mm Panel Mount USB Type A Female & Micro Male Connector, Black ABS Collar & EPDM USB Cover, 1mtr Cable
- D** - Ø22.5mm Panel Mount USB Type A Female & Mini Male Connector, Black ABS Collar & EPDM USB Cover, 1mtr Cable



# PRODUCTS FOR ELEVATOR

- Pit Switches
- Car Top Box
- Technical Specifications for Pit Switch & Car Top Box
- LED Solutions
  - LED with Magnet
  - Emergency Lighting Solutions
- Technical Specifications for Emergency Lighting
- Customization for Push Buttons
- Accessories



# PIT SWITCHES



**Emergency Stop Switch - Push Pull Type**  
 No. of Contact 2 NC  
 No. of Cable Gland 1  
 Size of Cable Gland PG 13.5  
 Mounting Bracket M.S. with Blue Zink Plating  
 Cat. No. JJJE0000



**Emergency Stop Switch - Push Pull Type**  
 No. of Contact 1 NC  
 No. of Cable Gland 2  
 Size of Cable Gland PG 13.5  
 Mounting Bracket M.S. with Blue Zink Plating  
 Cat. No. JMJB0000



**Emergency Stop Switch - Push Turn Type**  
 No. of Contact 2 NC  
 No. of Cable Gland 1  
 Size of Cable Gland PG 13.5  
 Protecting Shroud 1  
 Cat. No. JKFE0000



**Emergency Stop Switch - Push Turn Type**  
 No. of Contact 1 NC  
 No. of Cable Gland 2  
 Size of Cable Gland PG 13.5  
 Protecting Shroud 1  
 Mounting Bracket M.S. with Blue Zink Plating  
 Cat. No. JLFB0000



**Emergency Stop Switch - Push Turn Type**  
 No. of Contact 1 NC  
 Protecting Shroud 1  
 Cat. No. JKFB0000



**Emergency Stop Switch - Push Turn Type**  
 No. of Contact 1 NC  
 No. of Cable Gland 1  
 Size of Cable Gland PG 13.5  
 Protecting Shroud 1  
 Cat. No. JQFB0000

**Note:** For your customized / special requirement of Pit Switch please contact our sales team.

# CAR TOP BOX

- > ABS Engineering Plastic material resistant to ageing, impact, corrosion & non conductive to heat unlike metal enclosure
- > Fire retardant
- > Robust & total maintenance free
- > IP65 Protection
- > Fully insulated to house electrical & electronic equipment w.r.t. protection against electric shock.
- > Temp Resistance from -20°C to 70°C.

## 4 Way Push Button Station

Cat. No. EJ4C3AN028



**Note:** For your customized / special requirement of Car Top Box please contact our sales team.

# TECHNICAL SPECIFICATIONS

## PIT SWITCHES & CAR TOP BOX

Utilization Category	Supply	IEC-60947-5-1	UL-508	ITH/Thermal Current		
	AC	AC-15	A600	10A		
	DC	DC-13	P300			
Contact	NO and NC					
Rated Voltage	230V AC	120V AC	24V DC	OR	120V AC	600V AC
Rated Current	2A	6A	1.5A		6A	1.2A
Electrical Life for Contact	0.5 million Cycle					
HV Test for 60 Sec	2.5KV (All Terminals Shorted Together)					
Rated insulation Voltage	600 VAC					
Terminals	Suitable for flexible or solid conductors from 2x1 mm <sup>2</sup> to 2x2.5 mm <sup>2</sup>					
Current Carrying Material	Brass					
Contact Type	Make & Break					
Contact Material	AgNi/AGCdo					
Insulation Resistance at 500 VDC	> 50 M Ω					
Contact Resistance	> 20 M Ω					
MV drop at 16 A DC	> 200 MV					
Type	Non Illuminated / Illuminated					
Function	Push, Push - Push, Push turn, Selector					
Colour	RED/GREEN/BLACK/YELLOW/WHITE/BLUE/ORANGE					
Disposition of Contact	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <input type="checkbox"/> Contact Open  <input checked="" type="checkbox"/> Contact Close         </div> <div style="margin-right: 10px;">           NC            NO         </div> <div style="text-align: center;"> <p>Stroke (mm)</p> </div> </div>					

Environmental Rating	
Operating Temperature	-30°C to 60°C
Storage Temperature	-25°C to 70°C
IP Rating	IP65 above panel (As per IEC/EN -60529) & IP20 for Terminals
RoHS Compliance	Yes
Mechanical Life for Actuators	
Momentary (Push Button with Push Function)	1 million Operation
Emergency Stop (Turn to Release)	0.1 million Operation
Emergency Stop (Push Pull Type)	0.5 million Operation
Selector	0.5 million Operation

# LED SOLUTIONS

## LED TORCH



### Features:

- > Light weight & Maintenance free.
- > 24 bright LED's offering a spectrum of illumination.
- > LED's with Long life of close to 0.1 million continuous burning hours.
- > IP Protection IP 54
- > Product made of Engineering Plastic making it more robust, impact proof, corrosion resistant & fire retardant.
- > Low Power consumption – less than 3 watts
- > Mounting Hook provision provided.
- > LED torch is devoted to offering the light with the highest quality during elevator maintenance.
- > Can be used for inspecting critical operations.

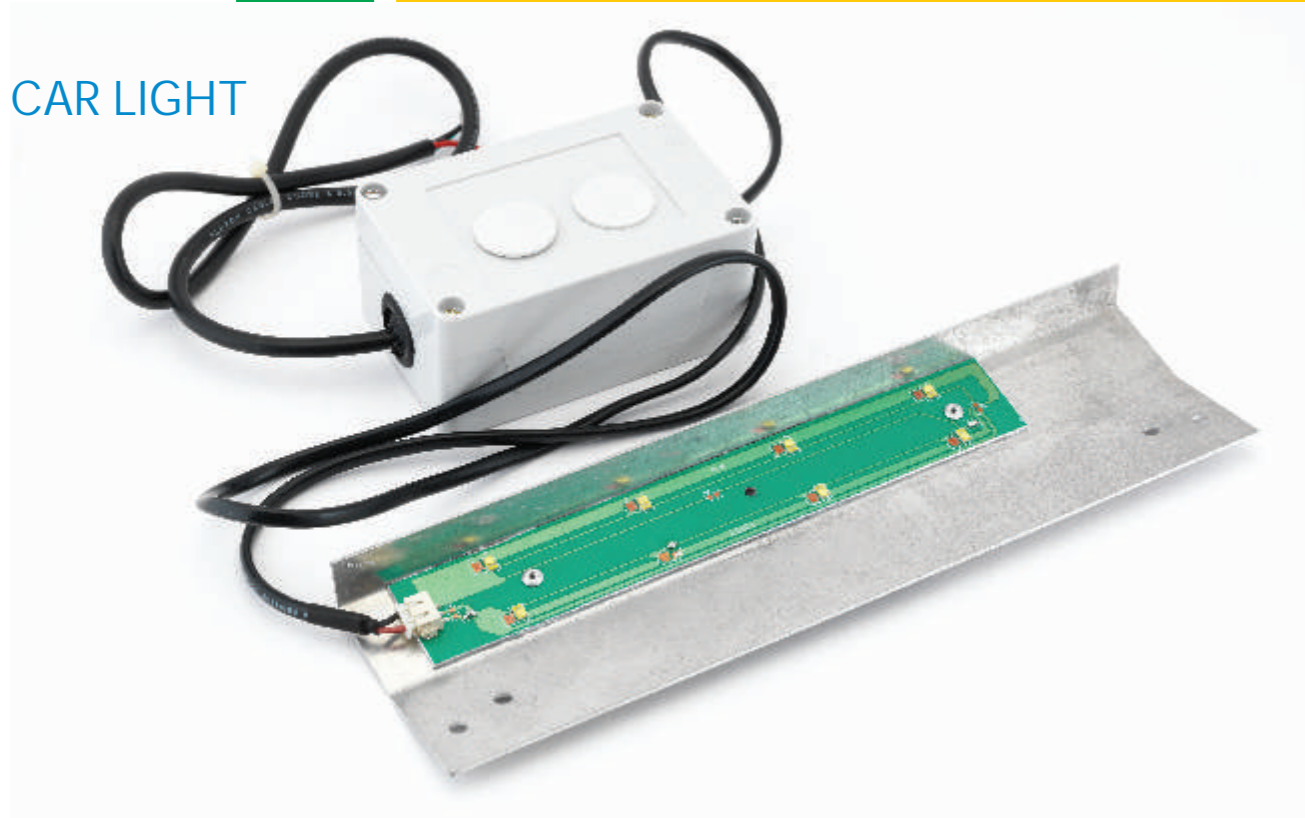
### Technical Specifications

Rated Voltage	240V AC, 110V AC, 24V AC/DC.
Limit of Operating Voltage	-20% to +10% of Rated Voltage
LED's	5 mm Th. Hole LEDs
Colours Available	White
Life	0.1 million burning hour
LED Arrangement	Cluster
Colour Temperature	6000°K- 7000°K
No. of LED's	24
Operating Frequency	50 / 60 Hz
Operating Temperature	-25°C to 65°C
Storage Temperature	-30°C to 70°C
Surge Test	2 KV
HV Test for 60 sec.	2.5 KV
EMI/ EMC Protection	2 KV
IP Protection	IP 54
Power Consumption (240V)	< 3W
Contact	Power Cord 0.75sqmm.
Mounting	Hook arrangement is provided

### LED Torch

Cat. No. : IL24D07□□□□□□  
 Colour (8th Digit) : W - White  
 Voltage (9th, 10th, 11th & 12th Digit):  
 024 C - 24 V AC/DC  
 110 A - 110 V AC  
 240 A - 240 V AC

## CAR LIGHT



### Car Light

Cat. No. : IL07K27W240A

#### Technical Specifications

Rated Voltage	95-265 VAC
LED's	SMD LED
Colours Available	White
Life	0.1 Million Switching Cycle
Colour Temperature	5000°K - 7000°K
Viewing Angle	120°
No. of LED Used	7
Operating Frequency	50 / 60 Hz
Operating Temperature	-20°C to 60°C
Storage Temperature	-25°C to 70°C
Surge Test	3KV
HV Test	2.5KV
EMI/EMC Protection	3kv
Input Power	19W
Output Voltage	21VDC
Electrical Efficiency	0.78%
Output Current	800 - 900mA
Primary Overvoltage Protection	Available
Secondary short Circuit Protection	Available
Secondary open Circuit Protection	Available
Power Supply IP Protection Class	54

## LED WITH MAGNET



### LED with Magnet

Cat. No. : IL06A00□□□□□

Colour (8th Digit) : W - White

Voltage (9th, 10th, 11th & 12th Digit):

012 C - 12 V AC/DC  
024 C - 24 V AC/DC  
110 A - 110 V AC  
240 A - 240 V AC

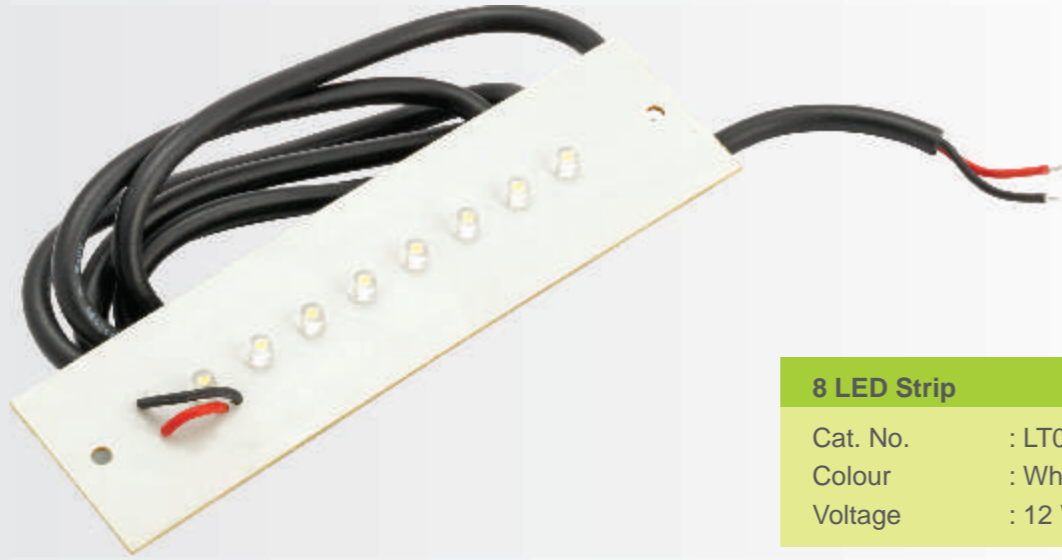
#### Technical Specifications

Rated Voltage	240 V AC
Limit of Operating Voltage	-20% to +10% of rated voltage
LED's	Through Hole LED's
Colour Available	White
Life	0.1 million burning hours
Operating Frequency	50 / 60 Hz
Operating Temperature	-30°C to 65°C
Storage Temperature	-30°C to 70°C
Surge Test	3 KV
HV Test for 60 sec.	2.5KV
Power Consumption (240V)	< 0.6W



## EMERGENCY LIGHTING

### 8 LED Strip



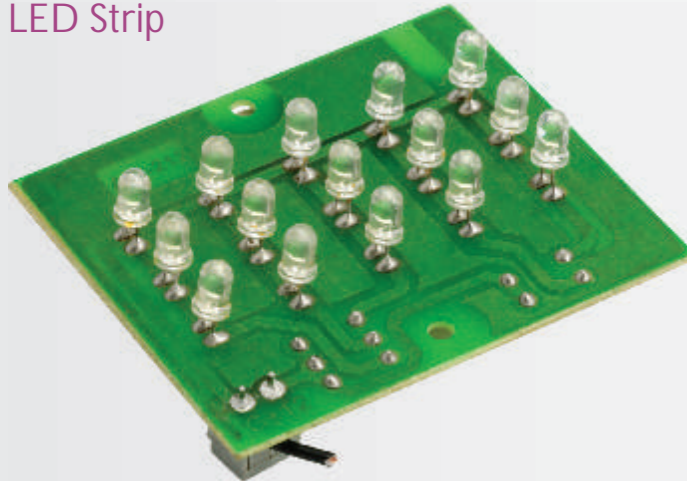
**8 LED Strip**  
 Cat. No. : LT00G08  
 Colour : White  
 Voltage : 12 V DC

### 12 LED Strip



**12 LED Strip**  
 Cat. No. : IL12A05W012D  
 Colour : White  
 Voltage : 12 V DC

### 15 LED Strip



**15 LED Strip**  
 Cat. No. : IL15B13W012D  
 Colour : White  
 Voltage : 12 V DC

**Note:** For your customized / special requirement of Emergency Lighting please contact our sales team.

## TECHNICAL SPECIFICATIONS FOR EMERGENCY LIGHTING

Product	8 LED PCB	12 LED PCB	15 LED PCB
Rated Voltage	12V DC	12V DC	12V DC
Limit of Operating Voltage	-20% to + 10% of Rated voltage	-20% to + 10% of Rated voltage	-20% to + 10% of Rated voltage
No. of LED's	5 mm Through Hole 8 LEDs	5 mm Through Hole 12 LEDs	5 mm Through Hole 15 LEDs
Colours Available	White	White	White
Life	0.1 million burning hour	0.1 million burning hour	0.1 million burning hour
Operating Temperature	-30°C to 65°C	-30°C to 65°	-30°C to 65°
Storage Temperature	-30°C to 70°C	-30°C to 70°C	-30°C to 70°C
HV Test for 60 sec.	2 KV	2 KV	2 KV
Power Consumption	< 0.6W	< 0.6W	< 0.6W

## CUSTOMISED PUSH BUTTONS

- > Mushroom Head Push Turn with Night Glow Sticker specially used for the night / low lit area



- > Customized Laser Printing (Text / Symbol)

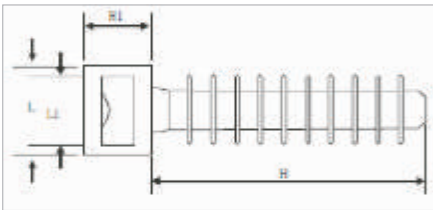


## ACCESSORIES

### Cable Tie Holder



Technical Specification		
Material	:	ABS Engineering Plastic
Color	:	Black
Length of Screw Body 'H'	:	37 mm
Length of Head 'H1'	:	06 mm
Width of Head 'L'	:	12.7 mm
Cable Tie Entry width 'L1'	:	9.7 mm

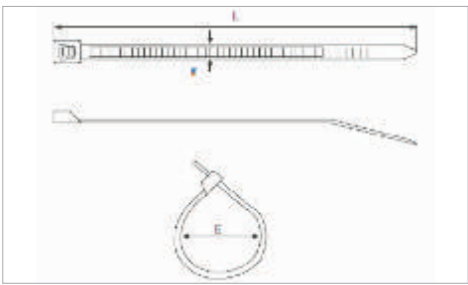


Cat. No.	Length of Screw Body 'H'	Cable Entry width 'L'
CTHC3797	37 mm	9.7 mm

### Cable Tie



Product Specification		
Material	:	Nylon 66
Color	:	White
Length 'L'	:	300 mm
Width 'W'	:	7.2 mm
Boundle Diameter 'E'	:	4x80 mm
Tensile Strength	:	55 Kgs



Cat. No.	Length 'L'	Width 'W'
CTC030072	300 mm	7.2 mm
CTC025072	250 mm	7.2 mm
CTC020072	200 mm	7.2 mm
CTC015072	150 mm	7.2 mm

### Cable Gland



Cat. No. :	CG□□□□
Colour (3rd Digit) :	G - Gray C - Black
Size (4th, 5th & 6th Digit):	009 - PG9 011 - PG11 013 - PG13.5 016 - PG16 018 - PG18 021 - PG21

## NOTES

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