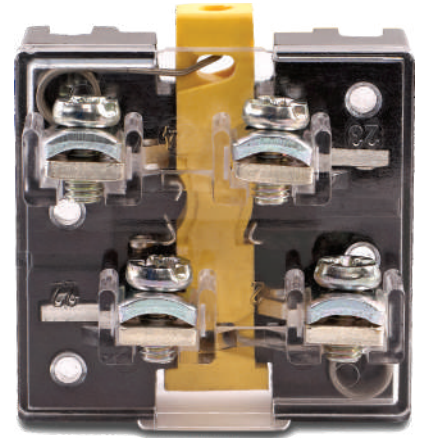


# TEKNIC

CE 

Control and Signaling Devices Ø 30.5 Series



## SALIENT FEATURES

The Ø30.5 range of pushbuttons, selector actuators, pilot lights and illuminated pushbuttons have been designed to provide the following salient features:

- Aesthetically elegant
- Easy and rapid mounting
- Dust, moisture and oil tight
- Robust in material of construction
- SELF WIPING CONTACTS
- Safe in operation
- Long mechanical and electrical life

The control devices are designed for flush mounting on control panels, desks and machines with plate thickness upto 6mm. Their dust, moisture and oil tight construction make them specially suitable for application in power plants, steel plants, cement plants, coal handling plants, foundries machine tools etc. Booted pushbuttons are used in very dusty atmospheres.

The pushbuttons comprises of the actuators and contact element. The actuator is designed to contain a full umbrella type of special rubber diaphragm inside the actuator housing in order to provide dust, moisture and oil tight onstruction. The different types of actuators include shrouded, unshrouded booted, mushroom spring return or stayput, mushroom jumbo, selector, key, luminous. Different versions including dust proofing version are described in detail in TEKNIC price list.

The contact element comprises of a contact housing, fixed and moving silver tipped contacts, a slider ans a transparent cover through which the contacts can be inspected in operation. Contacts are double break are **self wiping** which ensures long life. Each contact element provides 1NO and 1NC contact. Each unit can take upto 4 contact elements. Separate contact elements can be used on different phases or polarities.

The pilot lights and illuminated pushbuttons are suitable for direct supply or supply through series resistor, using bayonet cap filament bulb.

The pilot light can also be provided with neon bulbs. Replacement of the bulb is easily done by unscrewing the front ring, holding the lense. Pilot lights can be provided with either glass or polycarbonate lenses in the following standard colours

- |                     |         |
|---------------------|---------|
| • TRANSLUCENT WHITE | • AMBER |
| • GREEN             | • BLUE  |
| • RED               | • CLEAR |

Supply voltage for direct connection or without series resistor: 6V-230V  
Supply voltage for direct connection with series resistor : 24V-230V  
Pilot lights can also be supplied with neon bulbs upto a voltage of 500V

## FIXING

The control devices Ø30.5 can be fixed in any position on panel of 1 to 6mm thickness. They are secured from the front by means of a fixing ring. A set of rubber gaskets is supplied to provide water proofing and tightness between the unit and the panel. The exact number of rubber gaskets is to be selected depending upon the panel thickness. Fixing centres of 60mm are recommended between control stations to provide sufficient space for convenient terminal connections and assembly of legend plates.

The pushbutton can be either be mounted as complete unit on the front of the panel or the contact can be individually mounted with the actuator on the panel front plate. Also the pilot light can either be mounted as a complete unit on the front of the panel or the pilot light holder can be individually mounted with the lense on the front of the panel.

### ELECTRICAL AND MECHANICAL CHARACTERISTICS

Rated insulation voltage	: 500V AC, 600V DC
Rated thermal current	: 10A
Contact operation	: Self wiping, slow double break, 1 NO + 1 NC
Make and break capacity (13947-5-1)	: AC15: 4A 415V : DC13: 0.5A 110V
Terminal capacity	: Maximum 2x1.5mm <sup>2</sup> : Minimum 1X0.5mm <sup>2</sup>
Ambient temperature	: -25°C to +70°C
Altitude	: < 3000 metres
Operating position	: All positions
Degree of protection	: IP 65
Mechanical life	: Over 1 million operations

### ORDERING INSTRUCTIONS

1. Actuators, illuminated actuators, contact elements, pilot lights can be ordered separately or in combination.
2. No prefix before all actuators and combinations indicates Ø30.5 series
3. Numerical colour code has been added as suffix to indicate colour of the actuator or lense as follows:  

Colour of Actuator:	White	Black	Green	Red	Yellow	Blue	-
Colour of Lense:	Translucent white	-	Green	Red	Amber	Blue	Clear
Colour code:	1	2	3	4	5	6	7
4. The type number of contact elements are S11, S12, S21, S22. All these have 1NO+1NC contacts. S11 is for mounting directly to actuator and S12 for coupling to S11 for obtaining 2NO+2NC. S21 is for individual mounting and S22 is for coupling for S21 for 2NO+2NC

### BULBS

Filament Bulbs type BA15d

Voltage:	6	12	24	48	110	220
Wattage (max)	5-7	5-7	5-7	5-7	5-7	5-7

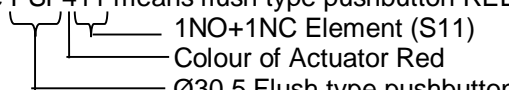
### LEGEND PLATES

Legend plates are supplied with the following standards texts

START	FORWARD	UP	ON	OPEN	AUTO	SLOW	RESET
STOP	REVERSE	DOWN	OFF	CLOSE	HAND	FAST	INCH

### TYPE NUMBERS

Some examples of type number

Actuator	Type AF3 means type actuator Ø30.5 GREEN
Pilot Light	Type PLB4 means pilot light without resistor RED Type PLBR3 means pilot light with series resistor GREEN
Complete Pushbutton	Type PSF411 means flush type pushbutton RED with 1NO+1NC 



# TEKNIC

Control & Signalling Devices 30.5 Ø

NON ILLUMINATED ACTUATOR				
	TYPE	COLOUR	ORDERING CODE	
		White	AF1	
	<b>Flush Momentary</b>	Black	AF2	
		Green	AF3	
		Red	AF4	
		Blue	AF6	
		Yellow	AF8	
		White	AP1	
	<b>Projecting Momentary</b>	Black	AP2	
		Green	AP3	
		Red	AP4	
		Blue	AP6	
		Yellow	AP8	
				
	<b>Booted Momentary</b>	Black	AB2	
		Green	AB3	
		Red	AB4	
		Blue	AB6	
	Yellow	AB8		
				
	<b>Mushroom Momentary Head Ø 40mm</b>	Black	AM2	
		Red	AM4	
				
	<b>Jumbo Mushroom Momentary Head Ø 60mm</b>	Black	AMJ2	
		Red	AMJ4	

# TEKNIC










## Control & Signalling Devices 30.5 Ø

NON ILLUMINATED ACTUATOR				
	TYPE	COLOUR	ORDERING CODE	
	Mushroom	Black	AML2	
	Latching	Red	AML4	
	Head Ø 40mm			
	Jumbo Mushroom	Black	AMLJ2	
	Latching	Red	AMLJ4	
	Head Ø 60mm			
	Key Mushroom			
	Latching	Red	AMLKB4	
	Head Ø 40mm			
	SELECTOR			
	2 position	Black	AS2-2P	
	STAY PUT			
				
	2 position	Black	AS2-2PSR	
	MOMENTARY			
				
	3 position	Black	AS2-3P	
	STAY PUT			
				

# TEKNIC

Control & Signalling Devices 30.5 Ø


## NON ILLUMINATED ACTUATOR

	TYPE	COLOUR	ORDERING CODE		
	<b>2 POSITION KEY</b>				
	<b>Stayput</b>				
				AK-2PB	
				AK-2PO	
				AK-2PI	
	<b>Spring Return</b>				
				AK-2POSR	
	<b>3 POSITION KEY</b>				
	<b>Stayput</b>				
				AK-3PA	
				AK-3PB	
				AK-3PO	
				AK-3PI	
	* X stands for position in which key is removable				


# TEKNIC

Control & Signalling Devices 22.5 Ø  
METALLIC SERIES


## ILLUMINATED FLUSH ACTUATOR WITH LED

	TYPE	COLOUR of LED / LENS	ORDERING CODE	
	Illuminated Flush actuator, spring return			
		Yellow LED Bulb / White Lens	ALF1LB	
	<b>LED Bulb, MCB15 type</b>	White LED Bulb / White Lens	ALF1LB(S)	
	<b>24V AC/DC,</b>	Green LED Bulb / Green Lens	ALF3LB	
	<b>110VAC, 110VDC</b>	Red LED Bulb / Red Lens	ALF4LB	
	<b>230VAC, 220VDC</b>	Amber LED Bulb / Amber Lens	ALF5LB	
		Blue LED Bulb / Blue Lens	ALF6LB	
		Yellow LED Bulb / Clear Lens	ALF7LB	
		White LED Bulb / Clear Lens	ALF7LB(S)	
	Yellow LED Bulb / Yellow Lens	ALF8LB		
<b>Bayonet Bulb LED</b>	Please mention the voltage required after the ordering code			

## PILOT LIGHT WITH INTEGRAL LED

	TYPE	COLOUR of LED / LENS	ORDERING CODE	
	Pilot Light			
		Yellow LED / White Lens	PLBR1L	
	<b>Integral LED</b>	White LED / White Lens	PLBR1L(S)	
	<b>6V, 12V, 24V, 48V AC/DC</b>	Green LED / Green Lens	PLBR3L	
	<b>110VAC, 110VDC,</b>	Red LED / Red Lens	PLBR4L	
	<b>230VAC, 220VDC</b>	Amber LED / Amber Lens	PLBR5L	
		Blue LED / Blue Lens	PLBR6L	
		Yellow LED / Clear Lens	PLBR7L	
		White LED / Clear Lens	PLBR7L(S)	
	Yellow LED / Yellow Lens	PLBR8L		
<b>Integral LED</b>	Please mention the voltage required after the ordering code			

## PILOT LIGHT WITH LED BULB

	TYPE	COLOUR of LED / LENS	ORDERING CODE	
	Pilot Light			
		Yellow LED Bulb / White Lens	PLB1LB	
	<b>LED Bulb, MCB15 type</b>	White LED Bulb / White Lens	PLB1LB(S)	
	<b>24V AC/DC,</b>	Green LED Bulb / Green Lens	PLB3LB	
	<b>110VAC, 110VDC</b>	Red LED Bulb / Red Lens	PLB4LB	
	<b>230VAC, 220VDC</b>	Amber LED Bulb / Amber Lens	PLB5LB	
		Blue LED Bulb / Blue Lens	PLB6LB	
		Yellow LED Bulb / Clear Lens	PLB7LB	
		White LED Bulb / Clear Lens	PLB7LB(S)	
	Yellow LED Bulb / Yellow Lens	PLB8LB		
<b>Bayonet Bulb LED</b>	Please mention the voltage required after the ordering code			

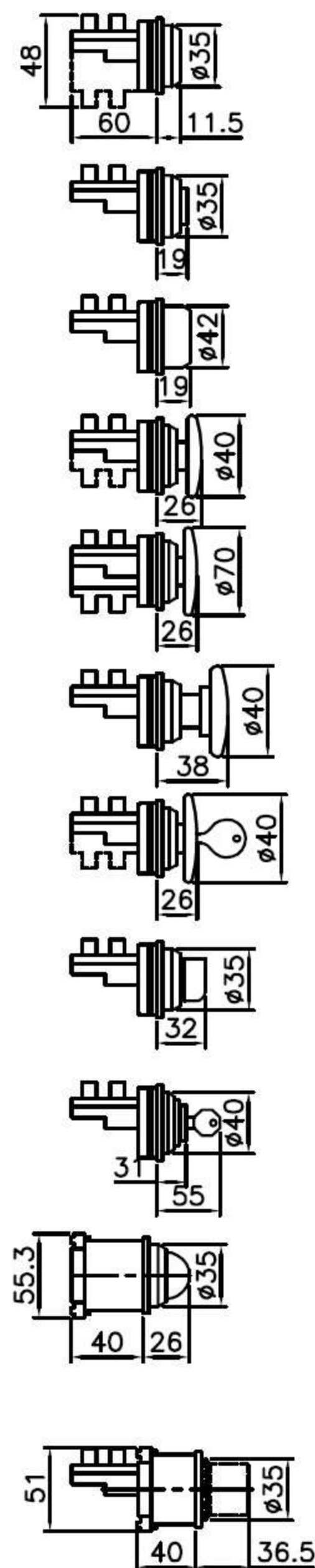




## Control and signalling devices $\phi 30.5$

### Some common types

Description	Type of Actuator	Type of Actuator or Lense	Colour of Element S11 (1NO + 1NC)	Type of Complete Control Device
Flush Pushbutton	AF3	Green	1NO + 1NC	PSF311
	AF8	Yellow	2NO + 2NC	PSF822
Projecting Pushbutton	AP2	Black	1NO + 1NC	PSP211
	AP4	Red	3NO + 3NC	PSP433
Booted Pushbutton	AB3	Green	1NO + 1NC	PSB311
	AB4	Red	2NO + 2NC	PSB422
Mushroom Pushbutton (Spring return)	AM2	Black	1NO + 1NC	PSM211
Mushroom Jumbo Pushbutton (Spring return)	AMJ4	Red	4NO + 4NC	PSMJ444
Mushroom Pushbutton Latching. Turn to Release.	AML2	Black	1NO + 1NC	PSML211
	AML4	Red	2NO + 2NC	PSML422
Mushroom Pushbutton Latching. Key to Release.	AMLKB4	Red	1NO + 1NC	PSMLKB411
Selector Actuator (2 Pos.)	AS2-2P	Black	1NO + 1NC	PSS211-2P
Selector Actuator (3 Pos.)	AS2-3P	Black	2NO + 2NC	PSS222-3P
Key Actuator (2 Pos.)	AK2-2P		1NO + 1NC	PSK211-2P
Key Actuator (3 Pos.)	AK2-3P		2NO + 2NC	PSK222-3P
Pilot Light for direct connection upto 230V (LED Bulb)		Red		PLB4LB (240V AC)
Pilot Light through series resistor for 230V (LED Bulb)		Green		PLBR3LB (240V AC)
Illuminated Pushbutton direct connection upto 230V (LED Bulb)	AL5LB	Amber	1NO + 1NC	PSL5LB11 (230V)



# TEKNIC



Control and Signaling Devices Ø 22.5 Metal Series



## Control and signalling devices Ø 22.5

### Salient features

This range of Ø 22.5 pushbuttons, selector switches, illuminated switches, illuminated selector switches and pilot lights have been designed to provide the following salient features:

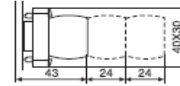
- Economy of space
- Aesthetically elegant
- SELF WIPING CONTACT
- Robust in materials of construction
- Simple to fix - screw driver is all that required
- Safe in operation
- Fixing method unaffected by excessive vibration-unit does not rotate
- Very good flame resistance
- Protection against electric shock (unit earthed)
- Shrouded terminals

### Actuators

The circular actuators have chrome plated metal bezels, and are interchangeable on the different types of contact elements.

### Contact elements

The contact elements are double break and have self wiping contacts. The elements are interchangeable and can be stacked without additional hardware. 1 to 6 elements (NO or NC) can be used with non illuminated actuators, whereas, 1 to 4 elements (NO or NC) can be used for illuminated actuators. **Gold plated NO and NC contact elements for low voltage, low current switching circuits < 25 mA, are available.**



### Illuminated pushbuttons and pilot lights

Pilot lights and illuminated switches are suitable for direct connection, through series resistor, through series resistor and diode, using bayonet cap filament bulb type BA9S, as follow :

Supply voltage for direct connection without series resistor ..... : 6V-130V

Supply voltage through series resistor ..... : 12V-415V

Supply voltage through series resistor and diode ..... : 230V AC

Bulb ..... : Filament, type BA9S with OAL max., 28 mm

LED illuminated actuators & pilot lights are available with integral LED, LED in bayonet cap suitable for operating at various voltages namely 6V, 12V, 24V, 30V, 48V, 110V, 230V, AC or DC and 415V AC. LED bulbs with bayonet cap are constructed in the standard BA9S design with OAL max. 28 mm. On request an extra short circuit protection consisting of built in fuse in the LED modules can be provided.

Pilot lights are available with built in transformers suitable for operating at 230, 110 volts AC input and 6V, 12V and 24V output.

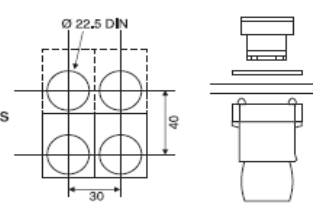
### Terminals

Contact elements and pilot lights are designed to have shrouded terminals with combi screws.

### Fixing

The control devices Ø 22.5 can be fixed in any position on panels of 1 to 6 mm thickness. We recommend minimum fixing centers of 30 mm X 40 mm. However, the dimensions and configuration should be decided on the basis of the application. The actuators and the lens assemblies lock on to the holding bracket using a bayonet type of fixing which enables a simple and fast assembly. The complete assembly is locked into position on the panel by two M4 pointed screws on the bracket, tightened equally from the rear. The screws should be tightened adequately to such an extent as to pierce through the paint on the panel from inside. These screws also ensure the earthing of the unit.

### Fixing arrangement



### Electrical and mechanical characteristics

#### Environment

Standard conformity	: CSA - C22.2 No. 14-95, UL508, IEC 947 - 5 (1) 1990, IS 13947
Approvals	: ASTA UK certified as per IEC 947 - 5 - (1) 1990 CSA - C22.2 No. 14-95, UL508
Degree of protection	: IP 65 as per IEC 529, NEMA 4X, 12 as per UL 50
Ambient	: - 25°C to + 70°C
Operating position	: All positions

#### Contact Block

Rated insulation voltage	: 500 V														
Rated thermal current	: 10 A														
Contact operation	: <b>Self wiping, slow break NO or NC</b>														
Make and break capacity															
As per IEC 947 - 5 - (1) 1990	: AC 15 4 A, 415V AC : DC 13 0.5 A, 110V DC : A 600 Q600														
As per CSA - C22.2 No. 14-95, UL508,															
Terminal capacity	: minimum 1 x 0.5 mm <sup>2</sup> , maximum 2 x 1.5 mm <sup>2</sup> or 1 x 2.5 mm <sup>2</sup>														
Terminal marking	: 1-2 for NC, 3-4 for NO														
Short circuit protection	: 10 A cartridge fuse HRC type, rated for resistive loading														
Mechanical life	: Over 1 million operations														
Electric rating															
(for 1 million operation cycles, operation at 3600 cycles per hour, load factor 0.5)	: AC 15 <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>V</td> <td>24</td> <td>120</td> <td>230</td> </tr> <tr> <td>A</td> <td>5</td> <td>4</td> <td>3</td> </tr> </table> DC 13 <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>V</td> <td>24</td> <td>110</td> </tr> <tr> <td>A</td> <td>0.5</td> <td>0.2</td> </tr> </table>	V	24	120	230	A	5	4	3	V	24	110	A	0.5	0.2
V	24	120	230												
A	5	4	3												
V	24	110													
A	0.5	0.2													

### Modules for pilot light & illuminated switches with integral LED / multichip LED bulb (BA9S cap)

Current consumptions (applicable to all colours)	:
24 VAC/DC, 110 VAC & 240 VAC	: max. 20 mA
110 VDC	: max. 15 mA
220 VDC	: max. 10 mA
Service life (at nominal voltage and at ambient temperature of 25°C)	: 100,000 hours
Voltage limits (nominal voltage)	: < 20% of rated voltage >
Short circuit protection	: on specific request
Terminal capacity	: min. 1 x 0.5 mm <sup>2</sup> , max. 2 x 1.5 mm <sup>2</sup> or 1 x 2.5 mm <sup>2</sup>

## Control and signalling devices Ø 22.5

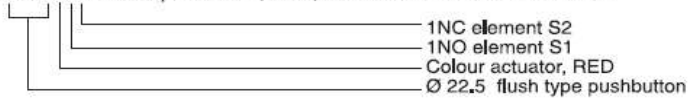
### Ordering instructions

1. Actuators, illuminated actuators, contact elements, lense assemblies & pilot lights can all be ordered separately or in combination.

2. The type numbers of contact elements are : NO: Actuator mounting : S1, S3 Note:  
 Individual mounting : S5, S7 S3, S4, S7, S8 are gold plated contacts  
 NC: Actuator mounting : S2, S4 suitable for low voltage, low current  
 Individual mounting : S6, S8 switching circuits < 25 mA

3. Some examples of type numbers:

Actuator : Type 2AF3 is flush actuator, GREEN  
 Pilot light : Type 2PLB4 is pilot light without series resistor, RED  
 Complete pushbutton : Type 2PSF411 is flush pushbutton, RED, with 1NO+1NC contact elements



### Accessories and spares

#### Legend plates

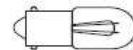
Legend plates 30 x 40 mm are supplied with the following standard texts:  
 START FORWARD UP OPEN AUTO SLOW RESET ON RIGHT TRIP  
 STOP REVERSE DOWN CLOSE HAND FAST INCH OFF LEFT POWER ON  
 Legend plate Ø 60 mm yellow with black characters for **EMERGENCY STOP**



#### Filament bulb

Filament bulb type BA9S, OAL 28mm

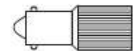
Voltage	: 6	12	24	30	48	60	130
Watts	: 1	2	2	2	2	2	2,6



#### LED bulb

LED multichip bulb type BA9S, OAL 28mm

Colour	: White	Green	Red	Amber	Blue	Yellow	V	W
Type No.	: MCB9124	MCB9324	MCB9424	MCB9524	MCB9624	MCB9824	24	0,5
	MCB91110	MCB93110	MCB94110	MCB95110	MCB96110	MCB98110	110	1,0
	MCB91230	MCB93230	MCB94230	MCB95230	MCB96230	MCB98230	230	1,0



#### Lenses

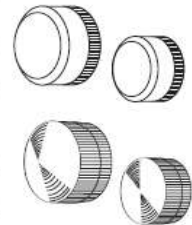
Colour of lense : Translucent White Green Red Amber Blue Clear Yellow

For pilot lights with filament bulb 2PLL1 2PLL3 2PLL4 2PLL5 2PLL6 2PLL7 2PLL8

For illuminated actuators with filament bulb (flush/projecting) 2LAL1 2LAL3 2LAL4 2LAL5 2LAL6 2LAL7 2LAL8

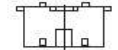
For pilot lights with LED 2PLL1L 2PLL3L 2PLL4L 2PLL5L 2PLL6L 2PLL7L 2PLL8L

For illuminated actuators with LED (flush/projecting) 2LAL1L 2LAL3L 2LAL4L 2LAL5L 2LAL6L 2LAL7L 2LAL8L



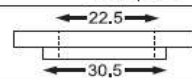
#### Push Push mechanism for converting spring return actuator into stay put type

Type No.: 2PPM



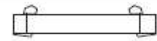
#### Adaptor for fixing Ø 22.5 devices in Ø 30.5 cutout.

Type No. : 2ADP



#### Fixing flange

Type No. : 2BRK



#### Padlock

For mushroom actuator : type no. 2PAM

For projecting actuator : type no. 2PAP



#### Boots for booted actuators

Colour of Boot : Black Green Red Blue Yellow

Type No : 2BT2 2BT3 2BT4 2BT6 2BT8



#### Boot for non ill. flush actuator

Colour of Boot : Clear

Type No : 2BT7



#### Boot for flush / proj. ill actuator

Colour of Boot : Clear

Type No : 2ALBT7



#### Boot for twin actuator

Colour of Boot : Clear

Type No : 2ATBT7



#### Boot for twin ill. actuator

Colour of Boot : Clear

Type No : 2ATLBT7



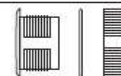
#### Bulb extractor

Type No. : 2BA9SE



#### Blanking plug for Ø 22.5 hole, black





Type No. : 2BP2



# TEKNIC

Control & Signalling Devices 22.5 Ø  
METALLIC SERIES






## MOMENTARY ACTUATORS

	TYPE	COLOUR	ORDERING CODE	
	<b>Flush</b>	White	2AF1	
		Black	2AF2	
		Green	2AF3	
		Red	2AF4	
		Blue	2AF6	
		Yellow	2AF8	
	<b>Flush with arrow marking</b>	White	2AF1A	
		Black	2AF2A	
		Green	2AF3A	
		Red	2AF4A	
		Blue	2AF6A	
		Yellow	2AF8A	
	<b>Projecting</b>	White	2AP1	
		Black	2AP2	
		Green	2AP3	
		Red	2AP4	
		Blue	2AP6	
		Yellow	2AP8	
	<b>Flush Relay Reset</b>	White	2AF1RR	
		Black	2AF2RR	
		Green	2AF3RR	
		Red	2AF4RR	
		Blue	2AF6RR	
		Yellow	2AF8RR	
	<b>Recess head</b>	White	2AF1RH	
		Black	2AF2RH	
		Green	2AF3RH	
		Red	2AF4RH	
		Blue	2AF6RH	
		Yellow	2AF8RH	
	<b>Booted</b>	Black	2AB2	
		Green	2AB3	
		Red	2AB4	
		Blue	2AB6	
		Yellow	2AB8	

# TEKNIC






Control & Signalling Devices 22.5 Ø

METALLIC SERIES

MUSHROOM ACTUATORS				
	TYPE	COLOUR	ORDERING CODE	
		Black	2AM2	
	<b>Momentary</b> <b>Ø 40mm</b>	Green	2AM3	
		Red	2AM4	
		Blue	2AM6	
		Yellow	2AM8	
				
	<b>Latching</b> <b>Ø 30mm</b>	Black	2AMLS2	
		Red	2AMLS4	
				
	<b>Latching</b> <b>Ø 40mm</b>	Black	2AML2	
		Red	2AML4	
				
	<b>Push-Pull</b> <b>Ø 40mm</b>	Black	2AMPP2	
		Red	2AMPP4	
				
	<b>Latching</b> <b>with Key</b> <b>Ø 40mm</b>	Black	2AMLKB2	
		Red	2AMLKB4	

# TEKNIC









Control & Signalling Devices 22.5 Ø  
METALLIC SERIES

MUSHROOM ACTUATORS				
	TYPE	COLOUR	ORDERING CODE	
				
	<b>Latching Trigger</b>	Black	2AMLT2	
	<b>Ø 40mm</b>	Red	2AMLT4	
				
	<b>Latching Trigger with key Ø 40mm</b>	Black	2AMLTKB2	
		Red	2AMLTKB4	
				
	<b>Latching</b>	Black	2AMLJ2	
	<b>Ø 60mm</b>	Red	2AMLJ4	
				
	<b>Push-Pull</b>	Black	2AMPPJ2	
	<b>Ø 60mm</b>	Red	2AMPPJ4	
		Black	2AMJ2	
	<b>Momentary</b>	Green	2AMJ3	
	<b>Ø 60mm</b>	Red	2AMJ4	
		Blue	2AMJ6	
		Yellow	2AMJ8	

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Control & Signalling Devices 22.5 Ø  
METALLIC SERIES

## SELECTOR ACTUATORS

	TYPE		COLOUR	ORDERING CODE		
	<b>SELECTOR</b>					
	<b>2 position</b>		Black	2AS2-2P		
	<b>LATCHING</b>					
	<b>With ext. knob</b>			2AS2E-2P		
	<b>2 position</b>		Black	2AS2-2PSR		
	<b>MOMENTARY</b>					
	<b>With ext. knob</b>			2AS2E-2PSR		
	<b>3 position</b>		Black	2AS2-3P		
	<b>STAY PUT</b>					
	<b>With ext. knob</b>			2AS2E-3P		
	<b>3 position</b>		Black	2AS2-3PSR		
	<b>MOMENTARY</b>					
	<b>on both sides</b>					
	<b>With ext. knob</b>			2AS2E-3PSR		
	<b>3 position</b>		Black	2AS2-3PSRR		
	<b>MOMENTARY</b>					
	<b>on right</b>					
<b>With ext. knob</b>			2AS2E-3PSRR			
<b>3 position</b>		Black	2AS2-3PSRL			
<b>MOMENTARY</b>						
<b>on left</b>						
<b>With ext. knob</b>			2AS2E-3PSRL			



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Control & Signalling Devices 22.5 Ø  
METALLIC SERIES


## KEY SELECTOR



	TYPE		COLOUR	ORDERING CODE	
	<b>2 POSITION</b>		Black	2AK2-2PB	
	<b>Stayput</b>				
				2AK2-2PO	
				2AK2-2PI	
	<b>Spring Return</b>		Black	2AK2-2POSR	
	<b>3 POSITION</b>		Black	2AK2-3PA	
	<b>Stayput</b>				
				2AK2-3PB	
				2AK2-3PC	
	<b>Spring Return</b>		Black	2AK2-3PSR	
	<b>Spring Return</b> <b>right to centre</b>		Black	2AK2-3PSRR	
	<b>Spring Return</b> <b>left to centre</b>		Black	2AK2-3PSRL	
* X stands for position in which key is removable					

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Control & Signalling Devices 22.5 Ø  
METALLIC SERIES

TWIN ACTUATORS				
	TYPE	COLOUR	ORDERING CODE	
		Green	2ATF3F4	
	<b>Double Flush</b>	Red		
	<b>w/o IO Mark</b>	Yellow	2ATF8F2	
		Black		
		Green	2ATF3F4(IO)	
	<b>Double Flush</b>	Red		
	<b>with IO Mark</b>	Yellow	2ATF8F2(IO)	
		Black		
		Green	2ATF3P4	
	<b>1 Flush,</b>	Red		
	<b>1 Projecting</b>	Yellow	2ATF8P2	
	<b>w/o IO Mark</b>	Black		
		Green	2ATF3P4(IO)	
	<b>1 Flush,</b>	Red		
<b>1 Projecting</b>	Yellow	2ATF8P2(IO)		
<b>with IO Mark</b>	Black			

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**Control & Signalling Devices 22.5 Ø**  
**METALLIC SERIES**

<b>ILLUMINATED ACTUATOR WITH FILAMENT BULB</b>						
	TYPE	COLOUR	ORDERING CODE			
<b>Illuminated Flush, Momentary</b>						
		White	2ALF1			
	<b>Filament Bulb</b>		Green	2ALF3		
	<b>6V to 130V AC/DC</b>		Red	2ALF4		
		Amber	2ALF5			
		Blue	2ALF6			
		Clear	2ALF7			
		Yellow	2ALF8			
	<b>Direct Connection</b> Please mention the voltage required after the ordering code					
			White	2ALRF1		
<b>Filament Bulb</b>		Green	2ALRF3			
<b>24V, 48V, 110V and 230 V</b>		Red	2ALRF4			
<b>AC/DC</b>		Amber	2ALRF5			
		Blue	2ALRF6			
		Clear	2ALRF7			
		Yellow	2ALRF8			
<b>Connection with Resistor</b> Please mention the voltage required after the ordering code						
<b>Illuminated Projecting, Momentary</b>						
		White	2ALP1			
	<b>Filament Bulb</b>		Green	2ALP3		
	<b>6V to 130V AC/DC</b>		Red	2ALP4		
		Amber	2ALP5			
		Blue	2ALP6			
		Clear	2ALP7			
		Yellow	2ALP8			
	<b>Direct Connection</b> Please mention the voltage required after the ordering code					
			White	2ALRP1		
<b>Filament Bulb</b>		Green	2ALRP3			
<b>24V, 48V, 110V and 230 V</b>		Red	2ALRP4			
<b>AC/DC</b>		Amber	2ALRP5			
		Blue	2ALRP6			
		Clear	2ALRP7			
		Yellow	2ALRP8			
<b>Connection with Resistor</b> Please mention the voltage required after the ordering code						

# TEKNIC









**Control & Signalling Devices 22.5 Ø**  
**METALLIC SERIES**

## ILLUMINATED FLUSH ACTUATOR WITH LED

	TYPE	COLOUR of LED / LENS	ORDERING CODE			
<b>Illuminated Flush actuator, Momentary</b>						
		Yellow LED / White Lens	2ALRF1L			
	<b>Integral LED</b>	White LED / White Lens	2ALRF1L(S)			
	<b>6V, 12V, 24V, 48V AC/DC</b>	Green LED / Green Lens	2ALRF3L			
	<b>110VAC, 110VDC,</b>	Red LED / Red Lens	2ALRF4L			
	<b>230VAC, 220VDC</b>	Amber LED / Amber Lens	2ALRF5L			
		Blue LED / Blue Lens	2ALRF6L			
		Yellow LED / Clear Lens	2ALRF7L			
		White LED / Clear Lens	2ALRF7L(S)			
		Yellow LED / Yellow Lens	2ALRF8L			
<b>Integral LED</b>	Please mention the voltage required after the ordering code					
		Yellow LED Bulb / White Lens	2ALF1LB			
	<b>LED Bulb, BA9S type</b>	White LED Bulb / White Lens	2ALF1LB(S)			
	<b>24V AC/DC,</b>	Green LED Bulb / Green Lens	2ALF3LB			
	<b>110VAC, 110VDC</b>	Red LED Bulb / Red Lens	2ALF4LB			
	<b>230VAC, 220VDC</b>	Amber LED Bulb / Amber Lens	2ALF5LB			
		Blue LED Bulb / Blue Lens	2ALF6LB			
		Yellow LED Bulb / Clear Lens	2ALF7LB			
		White LED Bulb/ Clear Lens	2ALF7LB(S)			
		Yellow LED Bulb / Yellow Lens	2ALF8LB			
<b>LED Bulb</b>	Please mention the voltage required after the ordering code					
		White LED / White Lens	2ALRF1LF			
	<b>Integral LED</b>	White LED / White Lens	2ALRF1L(S)F			
	<b>24V, 110V, 230V, AC</b>	Green LED / Green Lens	2ALRF3LF			
		Red LED / Red Lens	2ALRF4LF			
		Amber LED / Amber Lens	2ALRF5LF			
		Blue LED / Blue Lens	2ALRF6LF			
		Yellow LED / Clear Lens	2ALRF7LF			
		White LED / Clear Lens	2ALRF7L(S)F			
		Yellow LED / Yellow Lens	2ALRF8LF			
<b>Flasher with Integral LED</b>	Please mention the voltage required after the ordering code					
<b>Illuminated Projection Actuator, Momentary</b>						
		Yellow LED / White Lens	2ALRP1L			
	<b>Integral LED</b>	White LED / White Lens	2ALRP1L(S)			
	<b>6V, 12V, 24V, 48V AC/DC</b>	Green LED / Green Lens	2ALRP3L			
	<b>110VAC, 110VDC,</b>	Red LED / Red Lens	2ALRP4L			
	<b>230VAC, 220VDC</b>	Amber LED / Amber Lens	2ALRP5L			
		Blue LED / Blue Lens	2ALRP6L			
		Yellow LED / Clear Lens	2ALRP7L			
		White LED / Clear Lens	2ALRP7L(S)			
		Yellow LED / Yellow Lens	2ALRP8L			
<b>Integral LED</b>	Please mention the voltage required after the ordering code					
		Yellow LED Bulb / White Lens	2ALP1LB			
	<b>LED Bulb, BA9S type</b>	White LED Bulb / White Lens	2ALP1LB(S)			
	<b>24V AC/DC,</b>	Green LED Bulb / Green Lens	2ALP3LB			
	<b>110VAC, 110VDC</b>	Red LED Bulb / Red Lens	2ALP4LB			
	<b>230VAC, 220VDC</b>	Amber LED Bulb / Amber Lens	2ALP5LB			
		Blue LED Bulb / Blue Lens	2ALP6LB			
		Yellow LED Bulb / Clear Lens	2ALP7LB			
		White LED Bulb/ Clear Lens	2ALP7LB(S)			
		Yellow LED Bulb / Yellow Lens	2ALP8LB			
<b>LED Bulb</b>	Please mention the voltage required after the ordering code					
		White LED / White Lens	2ALRP1LF			
	<b>Integral LED</b>	White LED / White Lens	2ALRP1L(S)P			
	<b>24V, 110V, 230V, AC</b>	Green LED / Green Lens	2ALRP3LF			
		Red LED / Red Lens	2ALRP4LF			
		Amber LED / Amber Lens	2ALRP5LF			
		Blue LED / Blue Lens	2ALRP6LF			
		Yellow LED / Clear Lens	2ALRP7LF			
		White LED / Clear Lens	2ALRP7L(S)P			
		Yellow LED / Yellow Lens	2ALRP8LF			
<b>Flasher with Integral LED</b>	Please mention the voltage required after the ordering code					

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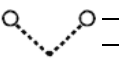





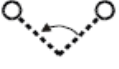
Control & Signalling Devices 22.5 Ø  
METALLIC SERIES

ILLUMINATED SELECTOR WITH FILAMENT BULB				
	TYPE	COLOUR	ORDERING CODE	
<b>2 Position Stayput illuminated selector actuator</b>				
		White	2ASL1-2P	
	Filament bulb	Green	2ASL3-2P	
	6V to 130V AC/DC	Red	2ASL4-2P	
		Amber	2ASL5-2P	
		Blue	2ASL6-2P	
		Clear	2ASL7-2P	
		Yellow	2ASL8-2P	
	<b>Direct Connection</b>	<b>Please mention the voltage required after the ordering code</b>		
		White	2ASLR1-2P	
	Filament bulb	Green	2ASLR3-2P	
	24 V,48V,110V,230V AC/DC	Red	2ASLR4-2P	
		Amber	2ASLR5-2P	
		Blue	2ASLR6-2P	
		Clear	2ASLR7-2P	
		Yellow	2ASLR8-2P	
	<b>Connection with Resistor</b>	<b>Please mention the voltage required after the ordering code</b>		
<b>2 Position Momentary illuminated selector actuator</b>				
		White	2ASL1-2PSR	
	Filament bulb	Green	2ASL3-2PSR	
	6V to 130V AC/DC	Red	2ASL4-2PSR	
		Amber	2ASL5-2PSR	
		Blue	2ASL6-2PSR	
		Clear	2ASL7-2PSR	
		Yellow	2ASL8-2PSR	
	<b>Direct Connection</b>	<b>Please mention the voltage required after the ordering code</b>		
		White	2ASLR1-2PSR	
	Filament bulb	Green	2ASLR3-2PSR	
	24 V,48V,110V,230V AC/DC	Red	2ASLR4-2PSR	
		Amber	2ASLR5-2PSR	
		Blue	2ASLR6-2PSR	
		Clear	2ASLR7-2PSR	
		Yellow	2ASLR8-2PSR	
	<b>Connection with Resistor</b>	<b>Please mention the voltage required after the ordering code</b>		

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**Control & Signalling Devices 22.5 Ø**  
**METALLIC SERIES**













## ILLUMINATED SELECTOR WITH LED

	TYPE	COLOUR	ORDERING CODE				
<b>2 Position, Stayput Illuminated Selector Actuator</b>							
		Yellow LED / White Lens	2ASLR1L-2P				
	<b>Integral LED</b>	White LED / White Lens	2ASLR1L(S)-2P				
	<b>6V, 12V, 24V, 48V AC/DC</b>	Green LED / Green Lens	2ASLR3L-2P				
	<b>110VAC, 110VDC,</b>	Red LED / Red Lens	2ASLR4L-2P				
	<b>230VAC, 220VDC</b>	Amber LED / Amber Lens	2ASLR5L-2P				
			Blue LED / Blue Lens	2ASLR6L-2P			
			Yellow LED / Clear Lens	2ASLR7L-2P			
			White LED / Clear Lens	2ASLR7L(S)-2P			
			Yellow LED / Yellow Lens	2ASLR8L-2P			
	<b>Integral LED</b>	Please mention the voltage required after the ordering code					
		Yellow LED Bulb / White Lens	2ASL1LB-2P				
	<b>LED Bulb, BA9S type</b>	White LED Bulb / White Lens	2ASL1LB(S)-2P				
	<b>24V AC/DC,</b>	Green LED Bulb / Green Lens	2ASL3LB-2P				
	<b>110VAC, 110VDC</b>	Red LED Bulb / Red Lens	2ASL4LB-2P				
	<b>230VAC, 220VDC</b>	Amber LED Bulb / Amber Lens	2ASL5LB-2P				
			Blue LED Bulb / Blue Lens	2ASL6LB-2P			
			Yellow LED Bulb / Clear Lens	2ASL7LB-2P			
			White LED Bulb / Clear Lens	2ASL7LB(S)-2P			
			Yellow LED Bulb / Yellow Lens	2ASL8LB-2P			
	<b>LED Bulb</b>	Please mention the voltage required after the ordering code					
<b>2 Position, Momentary Illuminated Selector Actuator</b>							
		Yellow LED / White Lens	2ASLR1L-2PSR				
	<b>Integral LED</b>	White LED / White Lens	2ASLR1L(S)-2PSR				
	<b>6V, 12V, 24V, 48V AC/DC</b>	Green LED / Green Lens	2ASLR3L-2PSR				
	<b>110VAC, 110VDC,</b>	Red LED / Red Lens	2ASLR4L-2PSR				
	<b>230VAC, 220VDC</b>	Amber LED / Amber Lens	2ASLR5L-2PSR				
			Blue LED / Blue Lens	2ASLR6L-2PSR			
			Yellow LED / Clear Lens	2ASLR7L-2PSR			
			White LED / Clear Lens	2ASLR7L(S)-2PSR			
			Yellow LED / Yellow Lens	2ASLR8L-2PSR			
	<b>Integral LED</b>	Please mention the voltage required after the ordering code					
		Yellow LED Bulb / White Lens	2ASL1LB-2PSR				
	<b>LED Bulb, BA9S type</b>	White LED Bulb / White Lens	2ASL1LB(S)-2PSR				
	<b>24V AC/DC,</b>	Green LED Bulb / Green Lens	2ASL3LB-2PSR				
	<b>110VAC, 110VDC</b>	Red LED Bulb / Red Lens	2ASL4LB-2PSR				
	<b>230VAC, 220VDC</b>	Amber LED Bulb / Amber Lens	2ASL5LB-2PSR				
			Blue LED Bulb / Blue Lens	2ASL6LB-2PSR			
			Yellow LED Bulb / Clear Lens	2ASL7LB-2PSR			
			White LED Bulb / Clear Lens	2ASL7LB(S)-2PSR			
			Yellow LED Bulb / Yellow Lens	2ASL8LB-2PSR			
	<b>LED Bulb</b>	Please mention the voltage required after the ordering code					

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Control & Signalling Devices 22.5 Ø  
METALLIC SERIES











## ILLUMINATED SELECTOR WITH FILAMENT BULB

	TYPE	COLOUR	ORDERING CODE			
<b>3 Position illuminated selector actuator</b>						
	Stayput	White	2ASL1-3P			
	Filament bulb	Green	2ASL3-3P			
	6V to 130V AC/DC	Red	2ASL4-3P			
		Amber	2ASL5-3P			
		Blue	2ASL6-3P			
		Clear	2ASL7-3P			
		Yellow	2ASL8-3P			
	Momentary	White	2ASL1-3PSR			
	Filament bulb	Green	2ASL3-3PSR			
	6V to 130V AC/DC	Red	2ASL4-3PSR			
		Amber	2ASL5-3PSR			
		Blue	2ASL6-3PSR			
		Clear	2ASL7-3PSR			
		Yellow	2ASL8-3PSR			
Stayput / Momentary	White	2ASL1-3PSRL				
Filament bulb	Green	2ASL3-3PSRL				
6V to 130V AC/DC	Red	2ASL4-3PSRL				
<b>Direct Connection</b>						
		Amber	2ASL5-3PSRL			
		Blue	2ASL6-3PSRL			
		Clear	2ASL7-3PSRL			
		Yellow	2ASL8-3PSRL			
	Stayput / Momentary	White	2ASL1-3PSRR			
	Filament bulb	Green	2ASL3-3PSRR			
	6V to 130V AC/DC	Red	2ASL4-3PSRR			
		Amber	2ASL5-3PSRR			
		Blue	2ASL6-3PSRR			
		Clear	2ASL7-3PSRR			
		Yellow	2ASL8-3PSRR			
	<b>3 Position illuminated selector actuator</b>					
		Stayput	White	2ASLR1-3P		
		Filament bulb	Green	2ASLR3-3P		
24 V, 48V, 110V, 230V AC/DC		Red	2ASLR4-3P			
		Amber	2ASLR5-3P			
		Blue	2ASLR6-3P			
		Clear	2ASLR7-3P			
		Yellow	2ASLR8-3P			
Momentary		White	2ASLR1-3PSR			
Filament bulb		Green	2ASLR3-3PSR			
24 V, 48V, 110V, 230V AC/DC		Red	2ASLR4-3PSR			
		Amber	2ASLR5-3PSR			
		Blue	2ASLR6-3PSR			
		Clear	2ASLR7-3PSR			
		Yellow	2ASLR8-3PSR			
Stayput / Momentary	White	2ASLR1-3PSRL				
Filament bulb	Green	2ASLR3-3PSRL				
24 V, 48V, 110V, 230V AC/DC	Red	2ASLR4-3PSRL				
<b>Connection with Resistor</b>						
		Amber	2ASLR5-3PSRL			
		Blue	2ASLR6-3PSRL			
		Clear	2ASLR7-3PSRL			
		Yellow	2ASLR8-3PSRL			
	Stayput / Momentary	White	2ASLR1-3PSRR			
	Filament bulb	Green	2ASLR3-3PSRR			
	24 V, 48V, 110V, 230V AC/DC	Red	2ASLR4-3PSRR			
		Amber	2ASLR5-3PSRR			
		Blue	2ASLR6-3PSRR			
		Clear	2ASLR7-3PSRR			
		Yellow	2ASLR8-3PSRR			

# TEKNIC

Control & Signalling Devices 22.5 Ø  
METALLIC SERIES

## ILLUMINATED SELECTOR WITH LED

	TYPE	COLOUR	ORDERING CODE			
<b>3 Position Illuminated Selector Actuator with Integral LED</b>						
	<b>Stayput</b>	Yellow LED / White Lens	2ASLR1L-3P			
	<b>Integral LED</b>	White LED / White Lens	2ASLR1L(S)-3P			
	<b>6V, 12V, 24V, 48V AC/DC</b>	Green LED / Green Lens	2ASLR3L-3P			
	<b>110VAC, 110VDC,</b>	Red LED / Red Lens	2ASLR4L-3P			
	<b>230VAC, 220VDC</b>	Amber LED / Amber Lens	2ASLR5L-3P			
		Blue LED / Blue Lens	2ASLR6L-3P			
		Yellow LED / Clear Lens	2ASLR7L-3P			
		White LED / Clear Lens	2ASLR7L(S)-3P			
		Yellow LED / Yellow Lens	2ASLR8L-3P			
	Please mention the voltage required after the ordering code					
	<b>Momentary</b>	Yellow LED / White Lens	2ASLR1L-3PSR			
	<b>Integral LED</b>	White LED / White Lens	2ASLR1L(S)-3PSR			
	<b>6V, 12V, 24V, 48V AC/DC</b>	Green LED / Green Lens	2ASLR3L-3PSR			
	<b>110VAC, 110VDC,</b>	Red LED / Red Lens	2ASLR4L-3PSR			
	<b>230VAC, 220VDC</b>	Amber LED / Amber Lens	2ASLR5L-3PSR			
	Blue LED / Blue Lens	2ASLR6L-3PSR				
	Yellow LED / Clear Lens	2ASLR7L-3PSR				
	White LED / Clear Lens	2ASLR7L(S)-3PSR				
	Yellow LED / Yellow Lens	2ASLR8L-3PSR				
<b>Integral LED</b>	Yellow LED / White Lens	2ASLR1L-3PSRL				
<b>Integral LED</b>	White LED / White Lens	2ASLR1L(S)-3PSRL				
<b>6V, 12V, 24V, 48V AC/DC</b>	Green LED / Green Lens	2ASLR3L-3PSRL				
<b>110VAC, 110VDC,</b>	Red LED / Red Lens	2ASLR4L-3PSRL				
<b>230VAC, 220VDC</b>	Amber LED / Amber Lens	2ASLR5L-3PSRL				
	Blue LED / Blue Lens	2ASLR6L-3PSRL				
	Yellow LED / Clear Lens	2ASLR7L-3PSRL				
	White LED / Clear Lens	2ASLR7L(S)-3PSRL				
	Yellow LED / Yellow Lens	2ASLR8L-3PSRL				
<b>Stayput / Momentary</b>	Yellow LED / White Lens	2ASLR1L-3PSRR				
<b>Integral LED</b>	White LED / White Lens	2ASLR1L(S)-3PSRR				
<b>6V, 12V, 24V, 48V AC/DC</b>	Green LED / Green Lens	2ASLR3L-3PSRR				
<b>110VAC, 110VDC,</b>	Red LED / Red Lens	2ASLR4L-3PSRR				
<b>230VAC, 220VDC</b>	Amber LED / Amber Lens	2ASLR5L-3PSRR				
	Blue LED / Blue Lens	2ASLR6L-3PSRR				
	Yellow LED / Clear Lens	2ASLR7L-3PSRR				
	White LED / Clear Lens	2ASLR7L(S)-3PSRR				
	Yellow LED / Yellow Lens	2ASLR8L-3PSRR				
<b>3 Position Illuminated Selector Actuator with LED Bulb</b>						
	<b>Stayput</b>	Yellow LED Bulb / White Lens	2ASL1LB-3P			
	<b>LED Bulb, BA9S type</b>	White LED Bulb / White Lens	2ASL1LB(S)-3P			
	<b>24V AC/DC,</b>	Green LED Bulb / Green Lens	2ASL3LB-3P			
	<b>110VAC, 110VDC</b>	Red LED Bulb / Red Lens	2ASL4LB-3P			
	<b>230VAC, 220VDC</b>	Amber LED Bulb / Amber Lens	2ASL5LB-3P			
		Blue LED Bulb / Blue Lens	2ASL6LB-3P			
		Yellow LED Bulb / Clear Lens	2ASL7LB-3P			
		White LED Bulb / Clear Lens	2ASL7LB(S)-3P			
		Yellow LED Bulb / Yellow Lens	2ASL8LB-3P			
	Please mention the voltage required after the ordering code					
	<b>Momentary</b>	White LED / White Lens	2ASL1L-3PSR			
	<b>LED Bulb, BA9S type</b>	White LED / White Lens	2ASL1L(S)-3PSR			
	<b>24V AC/DC,</b>	Green LED / Green Lens	2ASL3L-3PSR			
	<b>110VAC, 110VDC</b>	Red LED / Red Lens	2ASL4L-3PSR			
	<b>230VAC, 220VDC</b>	Amber LED / Amber Lens	2ASL5L-3PSR			
	Blue LED / Blue Lens	2ASL6L-3PSR				
	Yellow LED / Clear Lens	2ASL7L-3PSR				
	White LED / Clear Lens	2ASL7L(S)-3PSR				
	Yellow LED / Yellow Lens	2ASL8L-3PSR				
<b>LED Bulb</b>	Yellow LED Bulb / White Lens	2ASL1LB-3PSRL				
<b>LED Bulb, BA9S type</b>	White LED Bulb / White Lens	2ASL1LB(S)-3PSRL				
<b>24V AC/DC,</b>	Green LED Bulb / Green Lens	2ASL3LB-3PSRL				
<b>110VAC, 110VDC</b>	Red LED Bulb / Red Lens	2ASL4LB-3PSRL				
<b>230VAC, 220VDC</b>	Amber LED Bulb / Amber Lens	2ASL5LB-3PSRL				
	Blue LED Bulb / Blue Lens	2ASL6LB-3PSRL				
	Yellow LED Bulb / Clear Lens	2ASL7LB-3PSRL				
	White LED Bulb / Clear Lens	2ASL7LB(S)-3PSRL				
	Yellow LED Bulb / Yellow Lens	2ASL8LB-3PSRL				
Please mention the voltage required after the ordering code						
<b>Stayput / Momentary</b>	White LED / White Lens	2ASL1L-3PSRR				
<b>LED Bulb, BA9S type</b>	White LED / White Lens	2ASL1L(S)-3PSRR				
<b>24V AC/DC,</b>	Green LED / Green Lens	2ASL3L-3PSRR				
<b>110VAC, 110VDC</b>	Red LED / Red Lens	2ASL4L-3PSRR				
<b>230VAC, 220VDC</b>	Amber LED / Amber Lens	2ASL5L-3PSRR				
	Blue LED / Blue Lens	2ASL6L-3PSRR				
	Yellow LED / Clear Lens	2ASL7L-3PSRR				
	White LED / Clear Lens	2ASL7L(S)-3PSRR				
	Yellow LED / Yellow Lens	2ASL8L-3PSRR				



# TEKNIC

Control & Signalling Devices 22.5 Ø  
METALLIC SERIES

## PILOT LIGHTS WITH BULB

	TYPE	COLOUR	ORDERING CODE		
	<b>Pilot Light</b>				
		White	2PLB1		
	<b>Filament Bulb</b>	Green	2PLB3		
	<b>6V to 130V AC/DC</b>	Red	2PLB4		
		Amber	2PLB5		
		Blue	2PLB6		
		Clear	2PLB7		
		Yellow	2PLB8		
	<b>Direct Connection</b>	<b>Please mention the voltage required after the ordering code</b>			
		White	2PLBR1		
	<b>Filament Bulb</b>	Green	2PLBR3		
	<b>24V,48V,110V, 230V, AC/DC</b>	Red	2PLBR4		
		Amber	2PLBR5		
		Blue	2PLBR6		
		Clear	2PLBR7		
		Yellow	2PLBR8		
	<b>Connection with Resistor</b>	<b>Please mention the voltage required after the ordering code</b>			
		White	2PLBR1240AC		
	<b>Filament Bulb</b>	Green	2PLBR3240AC		
	<b>230V AC</b>	Red	2PLBR4240AC		
		Amber	2PLBR5240AC		
		Blue	2PLBR6240AC		
		Clear	2PLBR7240AC		
		Yellow	2PLBR8240AC		
	<b>Connection with Resistor+Diode</b>				
	<b>Filament Bulb</b>				
	<b>Primary volt. Sec. Volt</b>	White	2PLBT1 XX / YYY		
	<b>110VAC 6</b>	Green	2PLBT3 XX / YYY		
	<b>110VAC 12</b>	Red	2PLBT4 XX / YYY		
	<b>110VAC 24</b>	Amber	2PLBT5 XX / YYY		
	<b>Primary volt. Sec. Volt</b>	Blue	2PLBT6 XX / YYY		
	<b>240VAC 6</b>	Clear	2PLBT7 XX / YYY		
	<b>240VAC 12</b>	Yellow	2PLBT8 XX / YYY		
	<b>240VAC 24</b>				
	<b>Connection with Transformer</b>	XX - Primary Voltage YYY - Secondary Voltage			

# TEKNIC

Control & Signalling Devices 22.5 Ø  
METALLIC SERIES


## PILOT LIGHTS

	Type	Colour of Lens / LED	Ordering Code			
<b>Pilot Light with Integral LED</b>						
		Yellow LED / White Lens	2PLBR1L			
	<b>Integral LED</b>	White LED / White Lens	2PLBR1L(S)			
	<b>6V, 12V, 24V, 48V AC/DC</b>	Green LED / Green Lens	2PLBR3L			
	<b>110VAC, 110VDC,</b>	Red LED / Red Lens	2PLBR4L			
	<b>230VAC, 220VDC</b>	Amber LED / Amber Lens	2PLBR5L			
		Blue LED / Blue Lens	2PLBR6L			
		Yellow LED / Clear Lens	2PLBR7L			
		White LED / Clear Lens	2PLBR7L(S)			
		Yellow LED / Yellow Lens	2PLBR8L			
	Please mention the voltage required after the ordering code					
<b>Integral LED</b>	<b>Integral LED, Flasher</b>	Yellow LED / White Lens	2PLFBR1LF			
		White LED / White Lens	2PLFBR1LF(S)			
	<b>6V, 12V, 24V, 48V AC/DC</b>	Green LED / Green Lens	2PLFBR3LF			
	<b>110VAC, 110VDC,</b>	Red LED / Red Lens	2PLFBR4LF			
	<b>230VAC, 220VDC</b>	Amber LED / Amber Lens	2PLFBR5LF			
		Blue LED / Blue Lens	2PLFBR6LF			
		Yellow LED / Clear Lens	2PLFBR7LF			
		White LED / Clear Lens	2PLFBR7LF(S)			
		Yellow LED / Yellow Lens	2PLFBR8LF			
	<b>Integral LED, Universal</b>	Yellow LED / White Lens	2PLBR1LU			
	<b>24V upto 240V AC / DC</b>	White LED / White Lens	2PLBR1LU(S)			
		Green LED / Green Lens	2PLBR3LU			
		Red LED / Red Lens	2PLBR4LU			
		Amber LED / Amber Lens	2PLBR5LU			
		Blue LED / Blue Lens	2PLBR6LU			
		Yellow LED / Clear Lens	2PLBR7LU			
		White LED / Clear Lens	2PLBR7LU(S)			
	<b>Integral LED</b>		Yellow LED / Yellow Lens	2PLBR8LU		
			Yellow LED / White Lens	2PLBR1L		
<b>Integral LED</b>		White LED / White Lens	2PLBR1L(S)			
<b>415VAC</b>		Green LED / Green Lens	2PLBR3L			
		Red LED / Red Lens	2PLBR4L			
		Amber LED / Amber Lens	2PLBR5L			
		Blue LED / Blue Lens	2PLBR6L			
		Yellow LED / Clear Lens	2PLBR7L			
		White LED / Clear Lens	2PLBR7L(S)			
<b>Integral LED</b>			Yellow LED / Yellow Lens	2PLBR8L		
<b>Pilot Light with LED Bulb</b>						
		Yellow LED Bulb / White Lens	2PLB1LB			
	<b>LED Bulb, BA9S type</b>	White LED Bulb / White Lens	2PLB1LB(S)			
	<b>24V AC/DC,</b>	Green LED Bulb / Green Lens	2PLB3LB			
	<b>110VAC, 110VDC</b>	Red LED Bulb / Red Lens	2PLB4LB			
	<b>230VAC, 220VDC</b>	Amber LED Bulb / Amber Lens	2PLB5LB			
		Blue LED Bulb / Blue Lens	2PLB6LB			
		Yellow LED Bulb / Clear Lens	2PLB7LB			
		White LED Bulb / Clear Lens	2PLB7LB(S)			
		Yellow LED Bulb / Yellow Lens	2PLB8LB			
	Please mention the voltage required after the ordering code					
	<b>LED Bulb</b>	Yellow LED Bulb / White Lens	2PLBT1LBXX/YYY			
	<b>Primary volt. Sec. Volt</b>	White LED Bulb / White Lens	2PLB1LB(S)XX/YYY			
	<b>110VAC 6</b>	Green LED Bulb / Green Lens	2PLB3LBXX/YYY			
	<b>110VAC 12</b>	Red LED Bulb / Red Lens	2PLB4LBXX/YYY			
	<b>110VAC 24</b>	Amber LED Bulb / Amber Lens	2PLB5LBXX/YYY			
	<b>Primary volt. Sec. Volt</b>	Blue LED Bulb / Blue Lens	2PLB6LBXX/YYY			
	<b>240VAC 6</b>	Yellow LED Bulb / Clear Lens	2PLB7LBXX/YYY			
	<b>240VAC 12</b>	White LED Bulb / Clear Lens	2PLB7LB(S)XX/YYY			
	<b>240VAC 24</b>	Yellow LED Bulb / Yellow Lens	2PLB8LBXX/YYY			
	<b>Connection with Transformer</b>			<b>XX - Primary Voltage</b>		
			<b>YYY - Secondary Voltage</b>			

# TEKNIC





Control & Signalling Devices 22.5 Ø  
METALLIC SERIES

## TWIN ILLUMINATED

	Type	COLOUR	ORDERED CODE
<b>Twin Illuminated 1 Flush, 1 Projecting (IO) Mark with Filament Bulb</b>			
	Filament bulb	Red button	2ATL5 F3P4 (IO)
	6V to 130V AC/DC	Green button	
		Amber lens	
<b>Direct Connection</b>	Please mention the voltage required after the ordering code		
<b>Twin Illuminated Double Flush, (IO) Mark with Filament Bulb</b>			
	Filament bulb	Red button	2ATLR5 F3P4 (IO)
	24 V,48V,110V,230V AC/DC	Green button	
		Amber lens	
<b>Connection with Resistor</b>	Please mention the voltage required after the ordering code		
<b>Twin Illuminated Double Flush, (IO) Mark with Filament Bulb</b>			
	Filament bulb	Red button	2ATL5 F3F4 (IO)
	6V to 130V AC/DC	Green button	
		Amber lens	
<b>Direct Connection</b>	Please mention the voltage required after the ordering code		
	Filament bulb	Red button	2ATLR5 F3F4 (IO)
	24 V,48V,110V,230V AC/DC	Green button	
		Amber lens	
<b>Connection with Resistor</b>	Please mention the voltage required after the ordering code		





# TEKNIC

Control & Signalling Devices 22.5 Ø  
METALLIC SERIES

<b>TWIN ILLUMINATED WITH LED</b>						
	TYPE	COLOUR	ORDERING CODE			
<b>Twin Illuminated 1 Flush, 1 Projecting (IO) Mark</b>						
	Integral LED	Green	2ATLR5LF3P4 (IO)			
	6V, 12V, 24V, 48V AC/DC	Red				
	110VAC, 110VDC,	Amber lens				
	230VAC, 220VDC					
<b>Integral LED</b>	Please mention the voltage required after the ordering code					
	LED Bulb, BA9S type	Green	2ATL5LBF3P4 (IO)			
	24V AC/DC,	Red				
	110VAC, 110VDC	Amber lens				
	230VAC, 220VDC					
<b>LED Bulb</b>	Please mention the voltage required after the ordering code					
<b>Twin Illuminated Double Flush (IO) Marked</b>						
	Integral LED	Green	2ATLR5LF3F4 (IO)			
	6V, 12V, 24V, 48V AC/DC	Red				
	110VAC, 110VDC,	Amber lens				
	230VAC, 220VDC					
<b>Integral LED</b>	Please mention the voltage required after the ordering code					
	LED Bulb, BA9S type	Green	2ATL5LBF3F4 (IO)			
	24V AC/DC,	Red				
	110VAC, 110VDC	Amber lens				
	230VAC, 220VDC					
<b>LED Bulb</b>	Please mention the voltage required after the ordering code					





# TEKNIC

**Control & Signalling Devices 22.5 Ø**  
**METALLIC SERIES**

<b>ILLUMINATED MUSHROOM</b>					
	TYPE	COLOUR	ORDERING CODE		
<b>Illuminated Mushroom, Momentary with Filament Bulb</b>					
					
	<b>Filament bulb</b>	Red	2ALM4		
	<b>6V to 130V AC/DC</b>				
<b>Direct Connection</b>	Please mention the voltage required after the ordering code				
					
	<b>Filament bulb</b>	Red	2ALRM4		
	<b>24 V,48V,110V,230V AC/DC</b>				
<b>Connection with Resistor</b>	Please mention the voltage required after the ordering code				
<b>Illuminated Mushroom, Push Pull with Filament Bulb</b>					
					
	<b>Filament bulb</b>	Red	2ALMPP4		
	<b>6V to 130V AC/DC</b>				
<b>Direct Connection</b>	Please mention the voltage required after the ordering code				
					
	<b>Filament bulb</b>	Red	2ALRMPP4		
	<b>24 V,48V,110V,230V AC/DC</b>				
<b>Connection with Resistor</b>	Please mention the voltage required after the ordering code				

# TEKNIC

Control & Signalling Devices 22.5 Ø  
METALLIC SERIES

ILLUMINATED MUSHROOM WITH LED						
	TYPE	COLOUR	ORDERING CODE			
<b>Illuminated Mushroom, Momentary</b>						
	Integral LED	Red	2ALRM4L			
	6V, 12V, 24V, 48V AC/DC					
	110VAC, 110VDC,					
	230VAC, 220VDC					
<b>Integral LED</b>	<b>Please mention the voltage required after the ordering code</b>					
	LED Bulb, BA9S type	Red	2ALM4LB			
	24V AC/DC,					
	110VAC, 110VDC					
	230VAC, 220VDC					
<b>LED Bulb</b>	<b>Please mention the voltage required after the ordering code</b>					
<b>Illuminated Mushroom, Push Pull</b>						
	Integral LED	Red	2ALRMPP4L			
	6V, 12V, 24V, 48V AC/DC					
	110VAC, 110VDC,					
	230VAC, 220VDC					
<b>Integral LED</b>	<b>Please mention the voltage required after the ordering code</b>					
	LED Bulb, BA9S type	Red	2ALMPP4LB			
	24V AC/DC,					
	110VAC, 110VDC					
	230VAC, 220VDC					
<b>LED Bulb</b>	<b>Please mention the voltage required after the ordering code</b>					

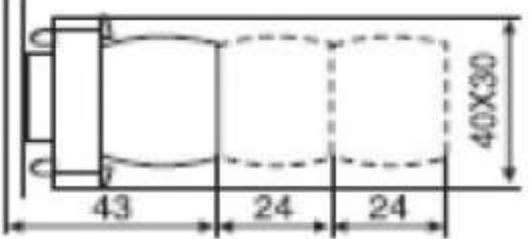
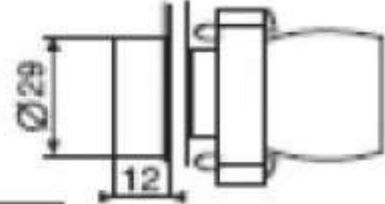
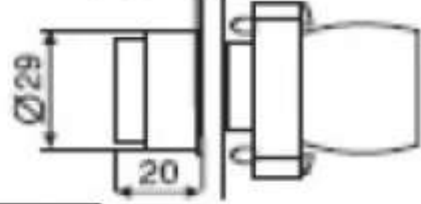
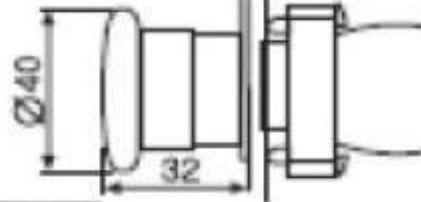
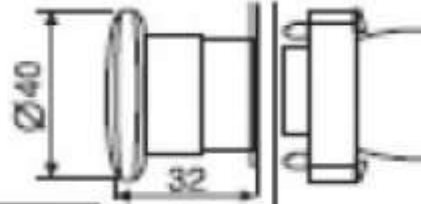
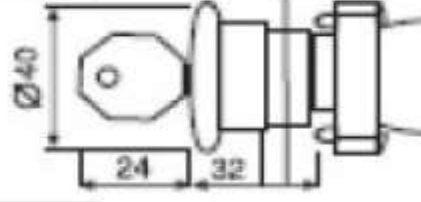
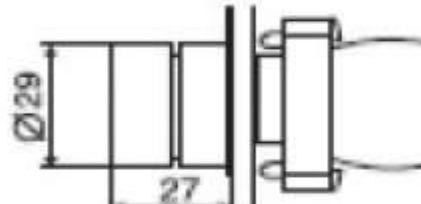
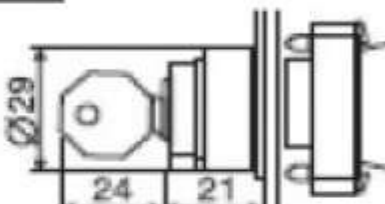
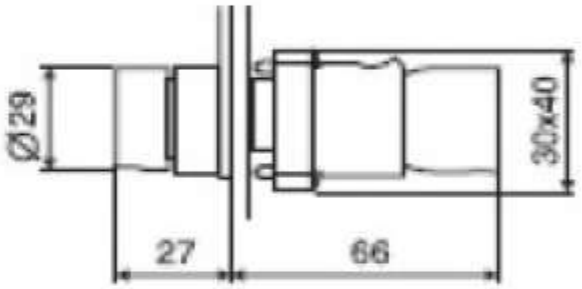
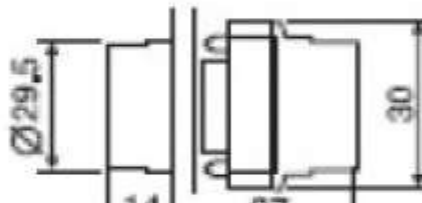
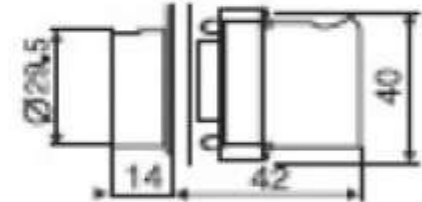
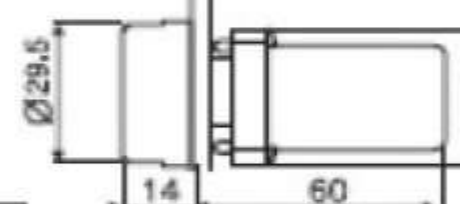
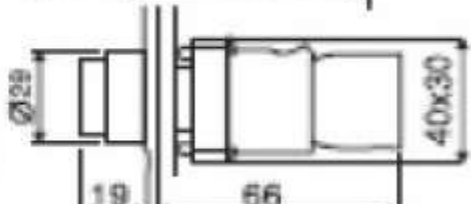
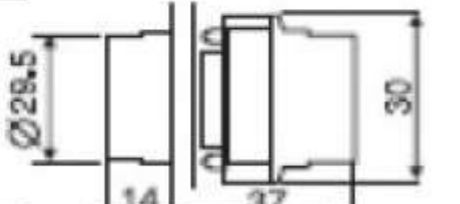
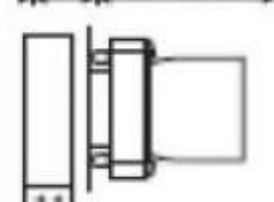
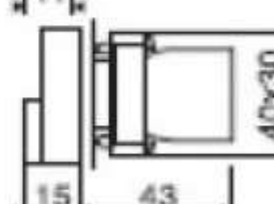
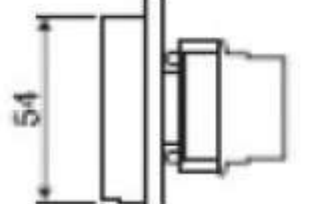
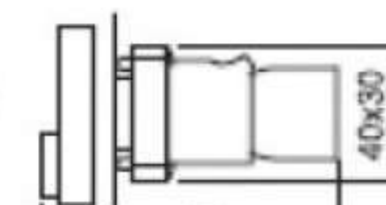
# TEKNIC

**Control & Signalling Devices 22.5 Ø  
METALLIC SERIES**

## CONTACT ELEMENTS

	TYPE	ORDERING CODE	
<b>PANEL MOUNTING</b>			
	NORMALLY OPEN (NO) SILVER CONTACT	S1	
	NORMALLY OPEN (NO) SILVER CONTACT (BREAK BEFORE MAKE)	S1S	
	NORMALLY OPEN (NO) SILVER CONTACT ( MAKE BEFORE BREAK )	S1E	
	NORMALLY CLOSED (NC) SILVER CONTACT	S2	
	NORMALLY OPEN (NO) GOLD CONTACT	S3	
	NORMALLY CLOSED (NC) GOLD CONTACT	S4	
<b>BASE MOUNTING</b>			
	NORMALLY OPEN (NO) SILVER CONTACT	S5	
	NORMALLY CLOSED (NC) SILVER CONTACT	S6	
	NORMALLY OPEN (NO) GOLD CONTACTS	S7	
	NORMALLY CLOSED (NC) GOLD CONTACTS	S8	

## Common types of control and signalling devices Ø 22.5

Description	Type of Actuator or Lense Assembly	Colour of Actuator or Lense	Contact Elements NO = S1 NC = S2 or Lamp Holder	Type of complete Control or Signalling Device	
Flush Pushbutton	2AF3	Green	1NO	2PSF310	
	2AF8	Yellow	2NO+1NC	2PSF821	
Projecting Pushbutton	2AP2	Black	2NC	2PSP202	
	2AP4	Red	3NO+3NC	2PSP433	
Mushroom Pushbutton Spring return	2AM2	Black	1NO+1NC	2PSM211	
	2AM4	Red	1NC	2PSM401	
Mushroom Pushbutton latching turn to release	2AML2	Black	1NC	2PSML201	
	2AML4	Red	2NO+2NC	2PSML422	
Mushroom Pushbutton latching, key to release	2AMLKB4	Red	1NO+1NC	2PSMLKB411	
Selector Actuator(2Pos)	2AS2-2P	Black	1NO	2PSS210-2P	
Selector Actuator(3Pos)	2AS2-3P	Red	1NO+1NC	2PSS211-3P	
Key Actuator (2Pos), Key withdrawable in both positions	2AK2-2PB		1NO	2PSK210-2PB	
Key Actuator (3Pos), Key withdrawable in left & right positions	2AK2-3PB		1NO+1NC	2PSK211-3PB	
Selector Illuminated Pushbutton, 2 position with resistance and diode (230V)	2ASLR3-2P230AC	Green	1NO+1NC + 2LHBR230AC	2PSSLR311-2P230AC	
Selector Illuminated Pushbutton, 3 Position with resistance (24V)	2ASLR4-3P24	Red	1NO+1NC + 2LHBR24	2PSSLR411-3P24	
Pilot Light for direct connection upto 130V	2LA3	Green	2LHB24	2PLB324	
	2LA4	Red	2LHB130	2PLB4130	
Pilot Light through resistor and diode for 230 V AC. Bulb:130V.	2LA5	Amber	2LHBR230AC	2PLBR5230AC	
	2LA6	Blue	2LHBR230AC	2PLBR6230AC	
Pilot Light with transformer for 230 V Bulb:24 V.	2LA4	Red	2LHBT230/24	2PLBT4230/24	
	2LA3	Green	2LHBT230/24	2PLBT3230/24	
Flush Illuminated Pushbutton with integral LED for 24 V DC	2ALRF3L24DC	Green	1NO+1NC + 2LHLR24DC	2PSLRF3L1124DC	
Projecting Illuminated Pushbutton with integral LED 230 V AC	2ALRP4L230AC	Red	1NO+1NC + 2LHLR230AC	2PSLRP4L11230AC	
Pilot Light with LED bulb for 110 V Bulb:110 V	2LAL5	Amber	2LHLB110	2PLB5LB110	
Twin Pushbutton marked "I O"	2ATF2-F4-IO	Flush-Black	1 NO	2PSTF210-F401-IO	
Flush - Flush		Flush-Red	1 NC		
Twin Pushbutton not marked	2ATF3-P4	Flush-Green	1NO+1NC	2PSTF311-P411	
Flush - Projecting		Proj-Red	1NO+1NC		
Twin Illuminated Pushbutton marked "I O" Flush - Flush direct connection (130V)	2ATL3-F2-F4 IO130	Lense-Green Flush-Black Flush-Red	2LHB130 1 NO + 1 NC 1 NC	2PSTL3F211-F401-IO130	
Twin Illuminated Pushbutton not marked Flush - Projecting with resistance (24V)	2ATLR5-F3-P424	Lense-Amber Flush-Green Proj.-Red	2LHBR24 1 NO 1 NC	2PSTLR5F310-P40124	



# TEKNIC



Control and Signaling Devices Ø 22.5 Plastic Series



## Control and signalling devices Ø 22.5 P series

### Salient features

This range of Ø 22.5 P series pushbuttons, selector switches, illuminated switches, and pilot lights in engineering plastic construction have been designed to provide the following salient features:

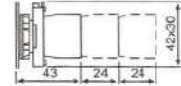
- Economy of space
- Aesthetically elegant
- SELF WIPING CONTACTS
- Robust in materials of construction
- Larger operating surface than Ø 30.5 series
- Simple to fix - screw driver is all that is required
- Safe in operation
  - Fixing method unaffected by excessive vibration-unit does not rotate
  - Very good flame resistance
  - Protection against electrical shock
  - Shrouded terminals
  - Resistant to corrosion

### Actuators

The circular actuators have black plastic bezels, and are functionally interchangeable on the different types of contact elements.

### Contact elements

The contact elements are double break and have **self wiping** contacts. The elements are interchangeable and can be stacked without additional hardware. 1 to 6 elements (NO or NC) can be used with non illuminated actuators, whereas, 1 to 4 elements (NO or NC) can be used for illuminated actuators. **Gold plated NO and NC contact elements for low voltage, low current switching circuits, < 25 mA, are available.**



### Illuminated pushbuttons and pilot lights

Pilot lights and illuminated switches are suitable for direct connection, through series resistor, through series resistor and diode, using bayonet cap filament bulb type BA9S, as follows :

Supply voltage for direct connection without series resistor ..... : 6V-130V  
 Supply voltage through series resistor..... : 12V-415V  
 Supply voltage through series resistor and diode ..... : 230V AC

Bulb ..... : Filament, type BA9s with OAL max., 28 mm

Pilot lights and illuminated actuators are available with integral LED chips, suitable for operating at various voltages namely 6V, 12V, 24V, 30V, 48V, 63.5V, 110V, 125V, 230V AC or DC and 415 volts AC. Pilot lights and illuminated actuators are available with LED bulbs (bayonet cap, BA9S design with OAL max. 28 mm) suitable for operating at various voltages namely 24V, 110V and 230V. On request an extra short circuit protection consisting of built in fuse in the LED modules can be provided.

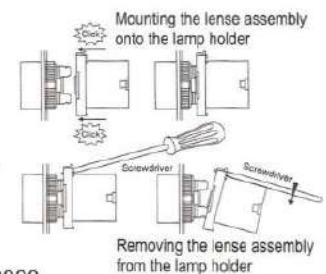
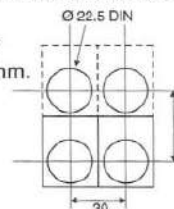
Pilot lights are available with built in transformers suitable for operating at 230, 110 volts AC input and 6 V, 12 V and 24V output.

### Terminals

Contact elements and pilot lights are designed to have shrouded terminals with combi screws.

### Fixing

The P series control devices Ø 22.5 can be fixed in any position on panels of 1 to 5 mm thickness. We recommend minimum fixing centres of 30mm X 40mm. However, the dimensions and configuration should be decided on the basis of the application. The actuators and the lense assemblies lock on the holding bracket. Details of the assembly shown in diagram.



### Electrical and mechanical characteristics

#### Environment

Standards conformity	:	CSA - C22.2 No. 14-95, UL508, EN 60947-5-1 2000
Approvals	:	CSA - C22.2 No. 14-95, UL508, VDE 0660
Degree of protection	:	IP 65 as per IEC 529, NEMA 4X, 12 as per UL 50
Ambient	:	- 25° C to + 70° C
Operating position	:	All positions

#### Contact Block

Rated insulation voltage	:	500 V
Rated thermal current	:	10 A
Contact operation	:	<b>Self wiping</b> , slow break NO or NC
Make and break capacity	:	AC 15 4 A , 415 V AC
As per IEC 947 - 5 - (1) 1990	:	DC 13 0.5 A , 110 V DC
Terminal capacity	:	Minimum 1 x 0.5 mm <sup>2</sup> , maximum 2 x 1.5 mm <sup>2</sup> or 1 x 2.5 mm <sup>2</sup>
Terminal marking	:	1-2 for NC, 3-4 for NO
Short circuit protection	:	10 A cartridge fuse HRC type, rated for resistive loading
Mechanical life	:	Over 1 million operations
Electrical rating	:	
(for 1 million operating cycles, operating at 3600 cycles per hour, load factor 0.5)	:	

AC 15	V	24	120	230	DC 13	V	24	110
	A	4	3	2		A	0.5	0.2

### Modules for pilot light & illuminated switches with integral LED / multichip LED bulb (BA9S cap)

Current consumptions (applicable to all colours)

24 VAC/DC, 110 VAC & 240 VAC	:	max. 20 mA
110 VDC	:	max. 15 mA
220 VDC	:	max. 10 mA
Service life (at nominal voltage and at ambient temperature of 25° C)	:	100,000 hours

Voltage limits (nominal voltage)	:	< 20% of rated voltage >
Short circuit protection	:	on specific request
Terminal capacity	:	min. 1 x 0.5 mm <sup>2</sup> , max. 2 x 1.5 mm <sup>2</sup> or 1 x 2.5 mm <sup>2</sup>

## Control and signalling devices Ø 22.5 P series

### Ordering instructions

- Actuators, illuminated actuators, contact elements, lense assemblies & pilot lights can all be ordered separately or in combination.
- Prefix P2 for all actuators and combinations indicates Ø 22.5 P series.
- The type numbers of contact elements are : NO: Actuator mounting : S1, S3 Note:  
Individual mounting : S5, S7 S3, S4, S7, S8 are gold plated contacts  
NC: Actuator mounting : S2, S4 suitable for low voltage, low current  
Individual mounting : S6, S8 switching circuits < 25 mA

3. Some examples of type numbers:

Actuator :Type P2AF3 is flush actuator, GREEN  
 Pilot light :Type P2PLB4 is pilot light without series resistor, RED  
 Complete pushbutton :Type P2PSF411 is flush pushbutton, RED, with 1NO+1NC contact elements  
 1NC element S2  
 1NO element S1  
 Colour actuator, RED  
 Ø 22.5 flush type pushbutton

### Accessories and spares

#### Legend plates

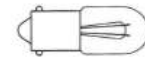
Legend plates 30 x 40 mm are supplied with the following standard texts:  
 START FORWARD UP OPEN AUTO SLOW RESET ON RIGHT TRIP  
 STOP REVERSE DOWN CLOSE HAND FAST INCH OFF LEFT POWER ON  
 Legend plate Ø 60 mm yellow with black characters for **EMERGENCY STOP**



#### Filament bulb

Filament bulb type BA9S, OAL 28mm

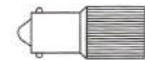
Voltage	: 6	12	24	30	48	60	130
Watts	: 1	2	2	2	2	2	2.6



#### LED bulb

LED multichip bulb type BA9S, OAL 28mm

Colour	: White	Green	Red	Amber	Blue	Yellow	V	W
Type No.	: MCB9124	MCB9324	MCB9424	MCB9524	MCB9624	MCB9824	24	0.5
	MCB91110	MCB93110	MCB94110	MCB95110	MCB96110	MCB98110	110	1.0
	MCB91230	MCB93230	MCB94230	MCB95230	MCB96230	MCB98230	230	1.0



#### Lenses

Colour of lense : Translucent Green Red Amber Blue Clear Yellow

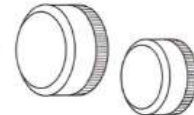
For pilot lights  
with filament bulb

For illuminated  
actuators with filament bulb  
(flush/projecting)

For pilot lights  
with LED

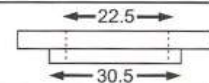
For illuminated  
actuators with LED  
(flush/projecting)

2PLL1	2PLL3	2PLL4	2PLL5	2PLL6	2PLL7	2PLL8
2LAL1	2LAL3	2LAL4	2LAL5	2LAL6	2LAL7	2LAL8
2PLL1L	2PLL3L	2PLL4L	2PLL5L	2PLL6L	2PLL7L	2PLL8L
2LAL1L	2LAL3L	2LAL4L	2LAL5L	2LAL6L	2LAL7L	2LAL8L



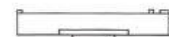
#### Adaptor for fixing Ø 22.5 devices in Ø 30.5 cutout.

Type No. : 2ADP



#### Fixing flange

Type No. : P2BRK



#### Padlock

For mushroom actuator : type no. 2PAM

For projecting actuator : type no. 2PAP



#### Boot for non ill. flush actuator

Colour of Boot : Clear

Type No : 2BT7



#### Boot for flush / projecting illuminated actuator

Colour of Boot : Clear

Type No : 2ALBT7



#### Boot for twin actuator

Colour of Boot : Clear

Type No : 2ATBT7



#### Boot for twin illuminated actuator

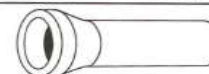
Colour of Boot : Clear

Type No : 2ATLBT7



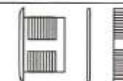
#### Bulb extractor

Type No. : 2BA9SE



#### Blanking plug for Ø 22.5 hole, black

Type No. : 2BP2




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## Control & Signalling Devices 22.5 Ø PLASTIC SERIES

MOMENTARY ACTUATORS				
	TYPE	COLOUR	ORDERING CODE	
		White	P2AF1	
		Black	P2AF2	
		Green	P2AF3	
	<b>Flush</b>	Red	P2AF4	
		Blue	P2AF6	
		Yellow	P2AF8	
		White	P2AF1A	
		Black	P2AF2A	
	<b>Flush with Arrow marking</b>	Green	P2AF3A	
		Red	P2AF4A	
		Blue	P2AF6A	
		Yellow	P2AF8A	
		White	P2AP1	
		Black	P2AP2	
	<b>Projecting</b>	Green	P2AP3	
		Red	P2AP4	
		Blue	P2AP6	
		Yellow	P2AP8	
	<b>Flush Relay</b>	White	P2AF1RR	
	<b>Reset Actuators</b>	Black	P2AF2RR	
		Green	P2AF3RR	
		Red	P2AF4RR	
		Blue	P2AF6RR	
		Yellow	P2AF8RR	
		White	P2AF1BT7	
		Black	P2AF2BT7	
		Green	P2AF3BT7	
	<b>Booted</b>	Red	P2AF4BT7	
		Blue	P2AF6BT7	
		Yellow	P2AF8BT7	

# TEKNIC

## Control & Signalling Devices 22.5 Ø PLASTIC SERIES

MUSHROOM HEAD ACTUATORS				
	TYPE	COLOUR	ORDERING CODE	
		Black	P2AM2	
	<b>Momentary</b> <b>Ø 40mm</b>	Green	P2AM3	
		Red	P2AM4	
		Blue	P2AM6	
		Yellow	P2AM8	
				
	<b>Push Pull</b> <b>Ø 40 mm</b>	Black	P2AMPP2	
		Red	P2AMPP4	
				
	<b>Latching</b> <b>Ø 30mm</b>	Black	P2AMLS2	
		Red	P2AMLS4	
				
	<b>Latching</b> <b>Ø 40mm</b>	Black	P2AML2	
		Red	P2AML4	
				
	<b>Latching</b> <b>with Key</b> <b>Ø 40mm</b>	Black	P2AMLKB2	
		Red	P2AMLKB4	









# TEKNIC

## Control & Signalling Devices 22.5 Ø PLASTIC SERIES

MUSHROOM HEAD ACTUATORS				
	TYPE	COLOUR	ORDERING CODE	
		Black	P2AMJ2	
	<b>Momentary</b> <b>Ø 60mm</b>	Green	P2AMJ3	
		Red	P2AMJ4	
		Blue	P2AMJ6	
		Yellow	P2AMJ8	
				
	<b>Push Pull</b> <b>Ø 60 mm</b>	Black	P2AMPPJ2	
		Red	P2AMPPJ4	
				
	<b>Latching</b> <b>Ø 60mm</b>	Black	P2AMLJ2	
		Red	P2AMLJ4	
				
	<b>Trigger type</b> <b>Press to Lock</b> <b>turn to release</b> <b>Ø 40 mm</b>	Black	P2AMLT2	
		Red	P2AMLT4	
				
	<b>Trigger type</b> <b>Press to Lock</b> <b>key to release</b> <b>Ø 40 mm</b>	Black	P2AMLTKB2	
		Red	P2AMLTKB4	
				
	<b>Trigger type</b> <b>Press to Lock</b> <b>pull to release</b> <b>Ø 40 mm</b>	Red	P2AMPPT4	

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## Control & Signalling Devices 22.5 Ø PLASTIC SERIES

SELECTOR ACTUATORS				
	TYPE	COLOUR	ORDERING CODE	
	<b>Selector</b> <b>2 position</b> <b>LATCHING</b> 	Black	P2AS2-2P	
	with ext. knob		P2AS2E-2P	
	<b>2 position</b> <b>MOMENTARY</b> 	Black	P2AS2-2PSR	
	with ext. knob		P2AS2E-2PSR	
	<b>3 position</b> <b>STAY PUT</b> 	Black	P2AS2-3P	
	with ext. knob		P2AS2E-3P	
	<b>MOMENTARY</b> <b>on both sides</b> 	Black	P2AS2-3PSR	
	with ext. knob		P2AS2E-3PSR	
	<b>3 position</b> <b>MOMENTARY</b> <b>on right</b> 	Black	P2AS2-3PSRR	
	with ext. knob		P2AS2E-3PSRR	
	<b>3 position</b> <b>MOMENTARY</b> <b>on left</b> 	Black	P2AS2-3PSRL	
	with ext. knob		P2AS2E-3PSRL	

# TEKNIC

## Control & Signalling Devices 22.5 Ø PLASTIC SERIES

### KEY SELECTOR ACTUATORS



TYPE	COLOUR	ORDERING CODE
2 Position Stayput	Black	P2AK2-2PB
		P2AK2-2PO
		P2AK2-2PI
Spring Return	Black	P2AK2-2POSR
3 Position Stayput	Black	P2AK2-3PA
	Black	P2AK2-3PB
	Black	P2AK2-3PC
Spring Return	Black	P2AK2-3PSR
Spring Return right to centre	Black	P2AK2-3PSRR
Spring Return left to centre	Black	P2AK2-3PSRL
* X stands for position in which key is removable		



# TEKNIC

## Control & Signalling Devices 22.5 Ø PLASTIC SERIES

TWIN ACTUATORS			
	TYPE	COLOUR	ORDERING CODE
		Green	P2ATF3F4
		Red	
	<b>Double Flush w/o IO Mark</b>	Yellow	P2ATF8F2
		Black	
		Green	P2ATF3F4(IO)
		Red	
	<b>Double Flush with IO Mark</b>	Yellow	P2ATF8F2(IO)
		Black	
		Green	P2ATF3P4
		Red	
	<b>1 Flush, 1 Projecting w/o IO Mark</b>	Yellow	P2ATF8P2
		Black	
		Green	P2ATF3P4(IO)
		Red	
	<b>1 Flush, 1 Projecting with IO Mark</b>	Yellow	P2ATF8P2(IO)
		Black	

# TEKNIC

## Control & Signalling Devices 22.5 Ø PLASTIC SERIES

ILLUMINATED MOMENTARY ACTUATORS WITH FILAMENT BULB				
	TYPE	COLOUR	ORDERING CODE	
	<b>Illuminated Flush</b>			
		White	P2ALF1	
	<b>Filament Bulb</b>	Green	P2ALF3	
	<b>6V to 130V AC/DC</b>	Red	P2ALF4	
		Amber	P2ALF5	
		Blue	P2ALF6	
		Clear	P2ALF7	
		Yellow	P2ALF8	
	<b>Direct Connection</b>	<b>Please mention the voltage required after the ordering code</b>		
		White	P2ALRF1	
		Green	P2ALRF3	
	<b>Filament Bulb</b>	Red	P2ALRF4	
	<b>24V,48V,130V,230V AC/DC</b>	Amber	P2ALRF5	
		Blue	P2ALRF6	
		Clear	P2ALRF7	
		Yellow	P2ALRF8	
	<b>Connection with Resistor</b>	<b>Please mention the voltage required after the ordering code</b>		
	<b>Illuminated Projecting</b>			
		White	P2ALP1	
	<b>Filament Bulb</b>	Green	P2ALP3	
	<b>6V to 130V AC/DC</b>	Red	P2ALP4	
		Amber	P2ALP5	
		Blue	P2ALP6	
		Clear	P2ALP7	
		Yellow	P2ALP8	
	<b>Direct Connection</b>	<b>Please mention the voltage required after the ordering code</b>		
		White	P2ALRP1	
		Green	P2ALRP3	
	<b>Filament Bulb</b>	Red	P2ALRP4	
	<b>24V,48V,130V,230V AC/DC</b>	Amber	P2ALRP5	
		Blue	P2ALRP6	
		Clear	P2ALRP7	
		Yellow	P2ALRP8	
	<b>Connection with Resistor</b>	<b>Please mention the voltage required after the ordering code</b>		






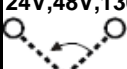
# TEKNIC

## Control & Signalling Devices 22.5 Ø PLASTIC SERIES

ILLUMINATED ACTUATORS WITH INTEGRAL LED / LED BULB			
	Type	Colour of LED / Lens	Ordering Code
<b>Illuminated Flush, Momentary</b>			
		Yellow LED / White Lens	P2ALRF1L
	<b>Integral LED</b>	White LED / White Lens	P2ALRF1L(S)
	<b>6V, 12V, 24V, 48V AC/DC</b>	Green LED / Green Lens	P2ALRF3L
	<b>110VAC, 110VDC,</b>	Red LED / Red Lens	P2ALRF4L
	<b>230VAC, 220VDC</b>	Amber LED / Amber Lens	P2ALRF5L
		Blue LED / Blue Lens	P2ALRF6L
		Yellow LED / Clear Lens	P2ALRF7L
		White LED / Clear Lens	P2ALRF7L(S)
		Yellow LED / Yellow Lens	P2ALRF8L
<b>Integral</b>	Please mention the voltage required after the ordering code		
	<b>LED Bulb, BA9S type</b>	Yellow LED Bulb / White Lens	P2ALF1LB
	<b>24V AC/DC,</b>	White LED Bulb / White Lens	P2ALF1LB(S)
	<b>110VAC, 110VDC</b>	Green LED Bulb / Green Lens	P2ALF3LB
	<b>230VAC, 220VDC</b>	Red LED Bulb / Red Lens	P2ALF4LB
		Amber LED Bulb / Amber Lens	P2ALF5LB
		Blue LED Bulb / Blue Lens	P2ALF6LB
		Yellow LED Bulb / Clear Lens	P2ALF7LB
		White LED Bulb / Clear Lens	P2ALF7LB(S)
		Yellow LED Bulb / Yellow Lens	P2ALF8LB
<b>Bayonet Bulb</b>	Please mention the voltage required after the ordering code		
		Yellow LED / White Lens	P2ALRF1LF
	<b>Integral LED</b>	White LED / White Lens	P2ALRF1LF(S)
	<b>24V, 110V, 230V, AC</b>	Green LED / Green Lens	P2ALRF3LF
		Red LED / Red Lens	P2ALRF4LF
		Amber LED / Amber Lens	P2ALRF5LF
		Blue LED / Blue Lens	P2ALRF6LF
		Yellow LED / Clear Lens	P2ALRF7LF
		White LED / Clear Lens	P2ALRF7LF(S)
		Yellow LED / Yellow Lens	P2ALRF8LF
<b>Flasher</b>	Please mention the voltage required after the ordering code		
<b>Illuminated Projecting, Momentary</b>			
		Yellow LED / White Lens	P2ALRP1L
	<b>Integral LED</b>	White LED / White Lens	P2ALRP1L(S)
	<b>6V, 12V, 24V, 48V AC/DC</b>	Green LED / Green Lens	P2ALRP3L
	<b>110VAC, 110VDC,</b>	Red LED / Red Lens	P2ALRP4L
	<b>230VAC, 220VDC</b>	Amber LED / Amber Lens	P2ALRP5L
		Blue LED / Blue Lens	P2ALRP6L
		Yellow LED / Clear Lens	P2ALRP7L
		White LED / Clear Lens	P2ALRP7L(S)
		Yellow LED / Yellow Lens	P2ALRP8L
<b>Integral</b>	Please mention the voltage required after the ordering code		
	<b>LED Bulb, BA9S type</b>	Yellow LED Bulb / White Lens	P2ALP1LB
	<b>24V AC/DC,</b>	White LED Bulb / White Lens	P2ALP1LB(S)
	<b>110VAC, 110VDC</b>	Green LED Bulb / Green Lens	P2ALP3LB
	<b>230VAC, 220VDC</b>	Red LED Bulb / Red Lens	P2ALP4LB
		Amber LED Bulb / Amber Lens	P2ALP5LB
		Blue LED Bulb / Blue Lens	P2ALP6LB
		Yellow LED Bulb / Clear Lens	P2ALP7LB
		White LED Bulb / Clear Lens	P2ALP7LB(S)
		Yellow LED Bulb / Yellow Lens	P2ALP8LB
<b>Bayonet Bulb</b>	Please mention the voltage required after the ordering code		
		Yellow LED / White Lens	P2ALRP1LF
	<b>Integral LED</b>	White LED / White Lens	P2ALRP1LF(S)
	<b>24V, 110V, 230V, AC</b>	Green LED / Green Lens	P2ALRP3LF
		Red LED / Red Lens	P2ALRP4LF
		Amber LED / Amber Lens	P2ALRP5LF
		Blue LED / Blue Lens	P2ALRP6LF
		Yellow LED / Clear Lens	P2ALRP7LF
		White LED / Clear Lens	P2ALRP7LF(S)
		Yellow LED / Yellow Lens	P2ALRP8LF
<b>Flasher</b>	Please mention the voltage required after the ordering code		


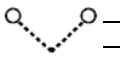

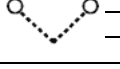




# TEKNIC

## Control & Signalling Devices 22.5 Ø PLASTIC SERIES

ILLUMINATED SELECTOR ACTUATOR WITH FILAMENT BULB				
	TYPE	COLOUR	ORDERING CODE	
<b>2 Position Stayput illuminated selector actuator</b>				
		White	P2ASL1-2P	
	<b>Filament Bulb</b>	Green	P2ASL3-2P	
	<b>6V to 130V AC/DC</b>	Red	P2ASL4-2P	
		Amber	P2ASL5-2P	
		Blue	P2ASL6-2P	
		Clear	P2ASL7-2P	
		Yellow	P2ASL8-2P	
	Direct Connection	Please mention the voltage required after the ordering code		
		White	P2ASLR1-2P	
	<b>Filament Bulb</b>	Green	P2ASLR3-2P	
	<b>24V,48V,130V,230V AC/DC</b>	Red	P2ASLR4-2P	
		Amber	P2ASLR5-2P	
		Blue	P2ASLR6-2P	
		Clear	P2ASLR7-2P	
		Yellow	P2ASLR8-2P	
	Connection with Resistor	Please mention the voltage required after the ordering code		
<b>2 Position, Momentary illuminated selector actuator</b>				
		White	P2ASL1-2PSR	
	<b>Filament Bulb</b>	Green	P2ASL3-2PSR	
	<b>6V to 130V AC/DC</b>	Red	P2ASL4-2PSR	
		Amber	P2ASL5-2PSR	
		Blue	P2ASL6-2PSR	
		Clear	P2ASL7-2PSR	
		Yellow	P2ASL8-2PSR	
	Direct Connection	Please mention the voltage required after the ordering code		
		White	P2ASLR1-2PSR	
	<b>Filament Bulb</b>	Green	P2ASLR3-2PSR	
	<b>24V,48V,130V,230V AC/DC</b>	Red	P2ASLR4-2PSR	
		Amber	P2ASLR5-2PSR	
		Blue	P2ASLR6-2PSR	
		Clear	P2ASLR7-2PSR	
		Yellow	P2ASLR8-2PSR	
	Connection with Resistor	Please mention the voltage required after the ordering code		




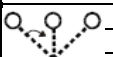






# TEKNIC

## Control & Signalling Devices 22.5 Ø PLASTIC SERIES

ILLUMINATED SELECTOR ACTUATOR WITH LED						
	TYPE	Colour of LED / Lens	ORDERING CODE			
<b>2 Position Stayput illuminated selector actuator</b>						
		Yellow LED / White Lens	P2ASLR1L-2P			
	<b>Integral LED</b>	White LED / White Lens	P2ASLR1L(S)-2P			
	<b>6V, 12V, 24V, 48V AC/DC</b>	Green LED / Green Lens	P2ASLR3L-2P			
	<b>110VAC, 110VDC,</b>	Red LED / Red Lens	P2ASLR4L-2P			
	<b>230VAC, 220VDC</b>	Amber LED / Amber Lens	P2ASLR5L-2P			
			Blue LED / Blue Lens	P2ASLR6L-2P		
			Yellow LED / Clear Lens	P2ASLR7L-2P		
			White LED / Clear Lens	P2ASLR7L(S)-2P		
			Yellow LED / Yellow Lens	P2ASLR8L-2P		
<b>Integral LED</b>	Please mention the voltage required after the ordering code					
		Yellow LED Bulb / White Lens	P2ASL1LB-2P			
	<b>LED Bulb BA9S type</b>	White LED Bulb / White Lens	P2ASL1LB(S)-2P			
	<b>24V AC/DC,</b>	Green LED Bulb / Green Lens	P2ASL3LB-2P			
	<b>110VAC, 110VDC</b>	Red LED Bulb / Red Lens	P2ASL4LB-2P			
	<b>230VAC, 220VDC</b>	Amber LED Bulb / Amber Lens	P2ASL5LB-2P			
			Blue LED Bulb / Blue Lens	P2ASL6LB-2P		
			Yellow LED Bulb / Clear Lens	P2ASL7LB-2P		
			White LED Bulb / Clear Lens	P2ASL7LB(S)-2P		
			Yellow LED Bulb / Yellow Lens	P2ASL8LB-2P		
<b>LED Bulb</b>	Please mention the voltage required after the ordering code					
<b>2 Position Momentary illuminated selector actuator</b>						
		Yellow LED / White Lens	P2ASLR1L-2PSR			
	<b>Integral LED</b>	White LED / White Lens	P2ASLR1L(S)-2PSR			
	<b>6V, 12V, 24V, 48V AC/DC</b>	Green LED / Green Lens	P2ASLR3L-2PSR			
	<b>110VAC, 110VDC,</b>	Red LED / Red Lens	P2ASLR4L-2PSR			
	<b>230VAC, 220VDC</b>	Amber LED / Amber Lens	P2ASLR5L-2PSR			
			Blue LED / Blue Lens	P2ASLR6L-2PSR		
			Yellow LED / Clear Lens	P2ASLR7L-2PSR		
			White LED / Clear Lens	P2ASLR7L(S)-2PSR		
			Yellow LED / Yellow Lens	P2ASLR8L-2PSR		
<b>Integral LED</b>	Please mention the voltage required after the ordering code					
		Yellow LED Bulb / White Lens	P2ASL1LB-2PSR			
	<b>LED Bulb BA9S type</b>	White LED Bulb / White Lens	P2ASL1LB(S)-2PSR			
	<b>24V AC/DC,</b>	Green LED Bulb / Green Lens	P2ASL3LB-2PSR			
	<b>110VAC, 110VDC</b>	Red LED Bulb / Red Lens	P2ASL4LB-2PSR			
	<b>230VAC, 220VDC</b>	Amber LED Bulb / Amber Lens	P2ASL5LB-2PSR			
			Blue LED Bulb / Blue Lens	P2ASL6LB-2PSR		
			Yellow LED Bulb / Clear Lens	P2ASL7LB-2PSR		
			White LED Bulb / Clear Lens	P2ASL7LB(S)-2PSR		
			Yellow LED Bulb / Yellow Lens	P2ASL8LB-2PSR		
<b>LED Bulb</b>	Please mention the voltage required after the ordering code					


# TEKNIC

## Control & Signalling Devices 22.5 Ø PLASTIC SERIES

ILLUMINATED SELECTOR ACTUATOR WITH BULB					
	TYPE	COLOUR	ORDERING CODE		
<b>3 Position illuminated selector actuator</b>					
	Stayput	White	P2ASL1-3P		
	Filament Bulb	Green	P2ASL3-3P		
	6V to 130V AC/DC	Red	P2ASL4-3P		
		Amber	P2ASL5-3P		
		Blue	P2ASL6-3P		
		Clear	P2ASL7-3P		
		Yellow	P2ASL8-3P		
	<b>Please mention the voltage required after the ordering code</b>				
	Momentary	White	P2ASL1-3PSR		
	Filament Bulb	Green	P2ASL3-3PSR		
	6V to 130V AC/DC	Red	P2ASL4-3PSR		
		Amber	P2ASL5-3PSR		
		Blue	P2ASL6-3PSR		
		Clear	P2ASL7-3PSR		
		Yellow	P2ASL8-3PSR		
<b>Please mention the voltage required after the ordering code</b>					
Direct Connection	6V to 130V AC/DC	Red	P2ASL4-3PSRL		
	Amber	P2ASL5-3PSRL			
	Blue	P2ASL6-3PSRL			
	Clear	P2ASL7-3PSRL			
	Yellow	P2ASL8-3PSRL			
<b>Please mention the voltage required after the ordering code</b>					
Momentary/Stayput	White	P2ASL1-3PSRL			
Filament Bulb	Green	P2ASL3-3PSRL			
6V to 130V AC/DC	Red	P2ASL4-3PSRL			
	Amber	P2ASL5-3PSRL			
	Blue	P2ASL6-3PSRL			
	Clear	P2ASL7-3PSRL			
	Yellow	P2ASL8-3PSRL			
<b>Please mention the voltage required after the ordering code</b>					
<b>3 Position illuminated selector actuator</b>					
	Stayput	White	P2ASLR1-3P		
	Filament Bulb	Green	P2ASLR3-3P		
	24V,48V,130V,230V AC/DC	Red	P2ASLR4-3P		
		Amber	P2ASLR5-3P		
		Blue	P2ASLR6-3P		
		Clear	P2ASLR7-3P		
		Yellow	P2ASLR8-3P		
	<b>Please mention the voltage required after the ordering code</b>				
	Momentary	White	P2ASLR1-3PSR		
	Filament Bulb	Green	P2ASLR3-3PSR		
	24V,48V,130V,230V AC/DC	Red	P2ASLR4-3PSR		
		Amber	P2ASLR5-3PSR		
		Blue	P2ASLR6-3PSR		
		Clear	P2ASLR7-3PSR		
		Yellow	P2ASLR8-3PSR		
<b>Please mention the voltage required after the ordering code</b>					
Connection with Resistor	24V,48V,130V,230V AC/DC	Red	P2ASLR4-3PSRL		
	Amber	P2ASLR5-3PSRL			
	Blue	P2ASLR6-3PSRL			
	Clear	P2ASLR7-3PSRL			
	Yellow	P2ASLR8-3PSRL			
<b>Please mention the voltage required after the ordering code</b>					
Momentary/Stayput	White	P2ASLR1-3PSRR			
Filament Bulb	Green	P2ASLR3-3PSRR			
24V,48V,130V,230V AC/DC	Red	P2ASLR4-3PSRR			
	Amber	P2ASLR5-3PSRR			
	Blue	P2ASLR6-3PSRR			
	Clear	P2ASLR7-3PSRR			
	Yellow	P2ASLR8-3PSRR			
<b>Please mention the voltage required after the ordering code</b>					

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## Control & Signalling Devices 22.5 Ø PLASTIC SERIES

ILLUMINATED SELECTOR ACTUATOR WITH LED						
	TYPE	Colour of LED / Lens	ORDERING CODE			
<b>3 Position Illuminated Selector Actuator</b>						
	<b>Stayput</b>	Yellow LED / White Lens	P2ASLR1L-3P			
	<b>Integral LED</b>	White LED / White Lens	P2ASLR1L(S)-3P			
	<b>6V, 12V, 24V, 48V AC/DC</b>	Green LED / Green Lens	P2ASLR3L-3P			
	<b>110VAC, 110VDC,</b>	Red LED / Red Lens	P2ASLR4L-3P			
	<b>230VAC, 220VDC</b>	Amber LED / Amber Lens	P2ASLR5L-3P			
			Blue LED / Blue Lens	P2ASLR6L-3P		
			Yellow LED / Clear Lens	P2ASLR7L-3P		
			White LED / Clear Lens	P2ASLR7L(S)-3P		
		Yellow LED / Yellow Lens	P2ASLR8L-3P			
	<b>Please mention the voltage required after the ordering code</b>					
		<b>Momentary</b>	Yellow LED / White Lens	P2ASLR1L-3PSR		
		<b>Integral LED</b>	White LED / White Lens	P2ASLR1L(S)-3PSR		
		<b>6V, 12V, 24V, 48V AC/DC</b>	Green LED / Green Lens	P2ASLR3L-3PSR		
		<b>110VAC, 110VDC,</b>	Red LED / Red Lens	P2ASLR4L-3PSR		
		<b>230VAC, 220VDC</b>	Amber LED / Amber Lens	P2ASLR5L-3PSR		
			Blue LED / Blue Lens	P2ASLR6L-3PSR		
			Yellow LED / Clear Lens	P2ASLR7L-3PSR		
			White LED / Clear Lens	P2ASLR7L(S)-3PSR		
		Yellow LED / Yellow Lens	P2ASLR8L-3PSR			
<b>Please mention the voltage required after the ordering code</b>						
		<b>Momentary/Stayput</b>	Yellow LED / White Lens	P2ASLR1L-3PSRL		
		<b>Integral LED</b>	White LED / White Lens	P2ASLR1L(S)-3PSRL		
		<b>6V, 12V, 24V, 48V AC/DC</b>	Green LED / Green Lens	P2ASLR3L-3PSRL		
		<b>110VAC, 110VDC,</b>	Red LED / Red Lens	P2ASLR4L-3PSRL		
		<b>230VAC, 220VDC</b>	Amber LED / Amber Lens	P2ASLR5L-3PSRL		
			Blue LED / Blue Lens	P2ASLR6L-3PSRL		
			Yellow LED / Clear Lens	P2ASLR7L-3PSRL		
			White LED / Clear Lens	P2ASLR7L(S)-3PSRL		
		Yellow LED / Yellow Lens	P2ASLR8L-3PSRL			
	<b>Please mention the voltage required after the ordering code</b>					
	<b>3 Position Illuminated Selector Actuator with LED Bulb</b>					
		<b>Stayput</b>	Yellow LED Bulb / White Lens	P2ASL1LB-3P		
		<b>LED Bulb</b>	White LED Bulb / White Lens	P2ASL1LB(S)-3P		
		<b>BA9S type</b>	Green LED Bulb / Green Lens	P2ASL3LB-3P		
		<b>24V AC/DC,</b>	Red LED Bulb / Red Lens	P2ASL4LB-3P		
<b>110VAC, 110VDC</b>		Amber LED Bulb / Amber Lens	P2ASL5LB-3P			
<b>230VAC, 220VDC</b>		Blue LED Bulb / Blue Lens	P2ASL6LB-3P			
			Yellow LED Bulb / Clear Lens	P2ASL7LB-3P		
			White LED Bulb / Clear Lens	P2ASL7LB(S)-3P		
			Yellow LED Bulb / Yellow Lens	P2ASL8LB-3P		
<b>Please mention the voltage required after the ordering code</b>						
		<b>Momentary</b>	Yellow LED Bulb / White Lens	P2ASL1LB-3PSR		
		<b>LED Bulb</b>	White LED Bulb / White Lens	P2ASL1LB(S)-3PSR		
		<b>BA9S type</b>	Green LED Bulb / Green Lens	P2ASL3LB-3PSR		
		<b>24V AC/DC,</b>	Red LED Bulb / Red Lens	P2ASL4LB-3PSR		
		<b>110VAC, 110VDC</b>	Amber LED Bulb / Amber Lens	P2ASL5LB-3PSR		
	<b>230VAC, 220VDC</b>	Blue LED Bulb / Blue Lens	P2ASL6LB-3PSR			
			Yellow LED Bulb / Clear Lens	P2ASL7LB-3PSR		
			White LED Bulb / Clear Lens	P2ASL7LB(S)-3PSR		
			Yellow LED Bulb / Yellow Lens	P2ASL8LB-3PSR		
	<b>Please mention the voltage required after the ordering code</b>					
		<b>Momentary/Stayput</b>	Yellow LED Bulb / White Lens	P2ASL1LB-3PSRL		
		<b>LED Bulb</b>	White LED Bulb / White Lens	P2ASL1LB(S)-3PSRL		
		<b>BA9S type</b>	Green LED Bulb / Green Lens	P2ASL3LB-3PSRL		
		<b>24V AC/DC,</b>	Red LED Bulb / Red Lens	P2ASL4LB-3PSRL		
		<b>110VAC, 110VDC</b>	Amber LED Bulb / Amber Lens	P2ASL5LB-3PSRL		
<b>230VAC, 220VDC</b>		Blue LED Bulb / Blue Lens	P2ASL6LB-3PSRL			
			Yellow LED Bulb / Clear Lens	P2ASL7LB-3PSRL		
			White LED Bulb / Clear Lens	P2ASL7LB(S)-3PSRL		
			Yellow LED Bulb / Yellow Lens	P2ASL8LB-3PSRL		
<b>Please mention the voltage required after the ordering code</b>						

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## Control & Signalling Devices 22.5 Ø PLASTIC SERIES

TWIN ILLUMINATED ACTUATOR WITH FILAMENT BULB				
	Type	COLOUR	ORDERING CODE	
	<b>Twin Illuminated 1 Flush, 1 Projecting (IO) Mark</b>			
	<b>Filament Bulb</b>	Red	P2ATL5 F3P4 (IO)	
	<b>6V to 130V AC/DC</b>	Green		
		Amber Lens		
<b>Direct Connection</b>	Please mention the voltage required after the ordering code			
	<b>Filament Bulb</b>	Red	P2ATLR5 F3P4 (IO)	
	<b>24V,48V,130V,230V AC/DC</b>	Green		
		Amber Lens		
<b>Connection with Resistor</b>	Please mention the voltage required after the ordering code			
	<b>Twin Illuminated Double Flush, (IO) Mark</b>			
	<b>Filament Bulb</b>	Red	P2ATL5 F3F4 (IO)	
	<b>6V to 130V AC/DC</b>	Green		
		Amber Lens		
<b>Direct Connection</b>	Please mention the voltage required after the ordering code			
	<b>Filament Bulb</b>	Red	P2ATLR5 F3F4 (IO)	
	<b>24V,48V,130V,230V AC/DC</b>	Green		
		Amber Lens		
<b>Connection with Resistor</b>	Please mention the voltage required after the ordering code			



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## Control & Signalling Devices 22.5 Ø PLASTIC SERIES

TWIN ILLUMINATED ACTUATORS WITH LED					
	TYPE	COLOUR	ORDERING CODE		
<b>Twin Illuminated 1 Flush, 1 Projecting, (IO) Mark</b>					
	Integral LED	Green	P2ATLR5L F3P4 (IO)		
	6V, 12V, 24V, 48V AC/DC	Red			
	110VAC, 110VDC, 230VAC, 220VDC	Amber Lens / Amber LED			
<b>Integral LED</b> Please mention the voltage required after the ordering code					
	LED Bulb, BA9S type	Green	P2ATLR5LB F3P4 (IO)		
	24V AC/DC,	Red			
	110VAC, 110VDC, 230VAC, 220VDC	Amber Lens / Amber LED			
<b>LED Bulb</b> Please mention the voltage required after the ordering code					
<b>Twin Illuminated Double Flush, (IO) Mark</b>					
	Integral LED	Green	P2ATLR5L F3F4 (IO)		
	6V, 12V, 24V, 48V AC/DC	Red			
	110VAC, 110VDC, 230VAC, 220VDC	Amber Lens / Amber LED			
<b>Integral LED</b> Please mention the voltage required after the ordering code					
	LED Bulb, BA9S type	Green	P2ATLR5LB F3F4 (IO)		
	24V AC/DC,	Red			
	110VAC, 110VDC, 230VAC, 220VDC	Amber Lens / Amber LED			
<b>LED Bulb</b> Please mention the voltage required after the ordering code					

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## Control & Signalling Devices 22.5 Ø PLASTIC SERIES

PILOT LIGHTS WITH FILAMENT BULB					
	TYPE		COLOUR	ORDERING CODE	
	<b>Pilot Light</b>				
			White	P2PLB1	
	<b>Filament Bulb</b>		Green	P2PLB3	
	<b>6V to 130V AC/DC</b>		Red	P2PLB4	
			Amber	P2PLB5	
			Blue	P2PLB6	
			Clear	P2PLB7	
			Yellow	P2PLB8	
	<b>Direct Connection</b>	<b>Please mention the voltage required after the ordering code</b>			
			White	P2PLBR1	
	<b>Fil. Bulb</b>		Green	P2PLBR3	
	<b>24V,48V,130V,230V AC/DC</b>		Red	P2PLBR4	
			Amber	P2PLBR5	
			Blue	P2PLBR6	
			Clear	P2PLBR7	
			Yellow	P2PLBR8	
	<b>Connection with Resistor</b>	<b>Please mention the voltage required after the ordering code</b>			
			White	P2PLBR1240AC	
	<b>Filament bulb</b>		Green	P2PLBR3240AC	
	<b>230 V AC</b>		Red	P2PLBR4240AC	
			Amber	P2PLBR5240AC	
			Blue	P2PLBR6240AC	
			Clear	P2PLBR7240AC	
			Yellow	P2PLBR8240AC	
	<b>Connection with Resistor + Diode</b>				
	<b>Filament bulb</b>				
	<b>Primary volt.</b>	<b>Secondary Volt.</b>	White	P2PLBT1 XXX / YY	
	110VAC	06	Green	P2PLBT3 XXX / YY	
	110VAC	12	Red	P2PLBT4 XXX / YY	
	110VAC	24	Amber	P2PLBT5 XXX / YY	
	<b>Primary volt.</b>	<b>Secondary Volt.</b>	Blue	P2PLBT6 XXX / YY	
	240VAC	06	Clear	P2PLBT7 XXX / YY	
	240VAC	12	Yellow	P2PLBT8 XXX / YY	
	240VAC	24			
<b>Connection with Transformer</b>			<b>XXX - Primary Voltage</b>		
			<b>YY - Secondary Voltage</b>		

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## Control & Signalling Devices 22.5 Ø PLASTIC SERIES

### PILOT LIGHTS

	TYPE	Colour of LED / Lens	ORDERING CODE			
<b>Pilot Light with Integral LED</b>						
		Yellow LED / White Lens	P2PLBR1L			
	<b>Integral LED</b>	White LED / White Lens	P2PLBR1L(S)			
	<b>6V, 12V, 24V, 48V AC/DC</b>	Green LED / Green Lens	P2PLBR3L			
	<b>110VAC, 110VDC,</b>	Red LED / Red Lens	P2PLBR4L			
	<b>230VAC, 220VDC</b>	Amber LED / Amber Lens	P2PLBR5L			
		Blue LED / Blue Lens	P2PLBR6L			
		Yellow LED / Clear Lens	P2PLBR7L			
		White LED / Clear Lens	P2PLBR7L(S)			
	Yellow LED / Yellow Lens	P2PLBR8L				
<b>Integral LED</b>	<b>Please mention the voltage required after the ordering code</b>					
		Yellow LED / White Lens	P2PLBR1LF			
		White LED / White Lens	P2PLBR1LF(S)			
	<b>Integral LED</b>	Green LED / Green Lens	P2PLBR3LF			
	<b>24V, 110V, 230V, AC</b>	Red LED / Red Lens	P2PLBR4LF			
		Amber LED / Amber Lens	P2PLBR5LF			
		Blue LED / Blue Lens	P2PLBR6LF			
		Yellow LED / Clear Lens	P2PLBR7LF			
		White LED / Clear Lens	P2PLBR7LF(S)			
	Yellow LED / Yellow Lens	P2PLBR8LF				
<b>Integral LED, Flasher</b>	<b>Please mention the voltage required after the ordering code</b>					
		Yellow LED / White Lens	P2PLBR1LU			
	<b>Integral LED</b>	White LED / White Lens	P2PLBR1LU(S)			
	<b>24V upto 240V AC/DC</b>	Green LED / Green Lens	P2PLBR3LU			
		Red LED / Red Lens	P2PLBR4LU			
		Amber LED / Amber Lens	P2PLBR5LU			
		Blue LED / Blue Lens	P2PLBR6LU			
		Yellow LED / Clear Lens	P2PLBR7LU			
		White LED / Clear Lens	P2PLBR7LU(S)			
	Yellow LED / Yellow Lens	P2PLBR8LU				
<b>Integral LED, Universal</b>	<b>Please mention the voltage required after the ordering code</b>					
		Yellow LED / White Lens	P2PLBR1L			
	<b>Integral LED</b>	White LED / White Lens	P2PLBR1L(S)			
	<b>415VAC</b>	Green LED / Green Lens	P2PLBR3L			
		Red LED / Red Lens	P2PLBR4L			
		Amber LED / Amber Lens	P2PLBR5L			
		Blue LED / Blue Lens	P2PLBR6L			
		Yellow LED / Clear Lens	P2PLBR7L			
		White LED / Clear Lens	P2PLBR7L(S)			
	Yellow LED / Yellow Lens	P2PLBR8L				
<b>Integral LED, 415VAC</b>	<b>Please mention the voltage required after the ordering code</b>					
		Yellow LED / White Lens	P2PLBR1L**TL			
	<b>Integral LED , Test Lamp</b>	White LED / White Lens	P2PLBR1L(S)**TL			
	<b>24V AC/DC,</b>	Green LED / Green Lens	P2PLBR3L**TL			
	<b>110VAC, 110VDC</b>	Red LED / Red Lens	P2PLBR4L**TL			
	<b>230VAC, 220VDC</b>	Amber LED / Amber Lens	P2PLBR5L**TL			
		Blue LED / Blue Lens	P2PLBR6L**TL			
		Yellow LED / Clear Lens	P2PLBR7L**TL			
		White LED / Clear Lens	P2PLBR7L(S)**TL			
	Yellow LED / Yellow Lens	P2PLBR8L**TL				
<b>Integral LED, Test Lamp</b>	<b>** Please mention the voltage required after the ordering code</b>					


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## Control & Signalling Devices 22.5 Ø PLASTIC SERIES

PILOT LIGHTS					
	TYPE	Colour of LED / Lens	ORDERING CODE		
<b>Pilot Light with LED Bulb</b>					
		Yellow LED Bulb / White Lens	P2PLB1LB		
	<b>LED Bulb, BA9S type</b>	White LED Bulb / White Lens	P2PLB1LB(S)		
	<b>24V AC/DC,</b>	Green LED Bulb / Green Lens	P2PLB3LB		
	<b>110VAC, 110VDC</b>	Red LED Bulb / Red Lens	P2PLB4LB		
	<b>230VAC, 220VDC</b>	Amber LED Bulb / Amber Lens	P2PLB5LB		
		Blue LED Bulb / Blue Lens	P2PLB6LB		
		Yellow LED Bulb / Clear Lens	P2PLB7LB		
		White LED Bulb / Clear Lens	P2PLB7LB(S)		
	Yellow LED Bulb / Yellow Lens	P2PLB8LB			
<b>LED Bulb</b>					
	<b>LED bulb</b>	Yellow LED Bulb / White Lens	P2PLBT1LB XXX / YY		
	<b>Pri. Volt    Sec. Volt</b>	White LED Bulb / White Lens	P2PLB1LB(S) XXX / YY		
	<b>110VAC    6</b>	Green LED Bulb / Green Lens	P2PLB3LB XXX / YY		
	<b>110VAC    12</b>	Red LED Bulb / Red Lens	P2PLB4LB XXX / YY		
	<b>110VAC    24</b>	Amber LED Bulb / Amber Lens	P2PLB5LB XXX / YY		
	<b>Pri. Volt    Sec. Volt</b>	Blue LED Bulb / Blue Lens	P2PLB6LB XXX / YY		
	<b>240VAC    6</b>	Yellow LED Bulb / Clear Lens	P2PLB7LB XXX / YY		
	<b>240VAC    12</b>	White LED Bulb / Clear Lens	P2PLB7LB(S) XXX / YY		
<b>240VAC    24</b>	Yellow LED Bulb / Yellow Lens	P2PLB8LB XXX / YY			
<b>Connection with Transformer</b>			<b>XXX - Primary Voltage</b>		
			<b>YY - Secondary Voltage</b>		

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## Control & Signalling Devices 22.5 Ø PLASTIC SERIES

LED PILOT LIGHTS ECONOMY SERIES			
	Type	Colour of LED / Lens	ORDERING CODE
	<b>Integral LED</b>	Yellow LED / White Lens	3PLBR1L
	<b>6V, 12V, 24V, 48V AC/DC</b>	White LED / White Lens	3PLBR1L(S)
	<b>110VAC, 110VDC,</b>	Green LED / Green Lens	3PLBR3L
	<b>230VAC, 220VDC</b>	Red LED / Red Lens	3PLBR4L
		Amber LED / Amber Lens	3PLBR5L
		Blue LED / Blue Lens	3PLBR6L
		Yellow LED / Clear Lens	3PLBR7L
		White LED / Clear Lens	3PLBR7L(S)
		Yellow LED / Yellow Lens	3PLBR8L
	<b>Please mention the voltage required after the ordering code</b>		
	<b>Integral LED, Universal</b>	Yellow LED / White Lens	3PLBR1LU
	<b>24V upto 240V AC/DC</b>	White LED / White Lens	3PLBR1LU(S)
		Green LED / Green Lens	3PLBR3LU
		Red LED / Red Lens	3PLBR4LU
		Amber LED / Amber Lens	3PLBR5LU
		Blue LED / Blue Lens	3PLBR6LU
		Yellow LED / Clear Lens	3PLBR7LU
		White LED / Clear Lens	3PLBR7LU(S)
		Yellow LED / Yellow Lens	3PLBR8LU
		<b>Integral LED, dual colour</b>	<b>Green LED</b>
<b>24VAC</b>		<b>Red LED</b>	
<b>110VAC</b>		<b>White Lens</b>	
<b>230VAC</b>			
<b>Please mention the voltage required after the ordering code</b>			
<b>Other Colour Combinations available on request.</b>			

# TEKNIC

## Control & Signalling Devices 22.5 Ø METALLIC SERIES

CONTACT ELEMENTS			
	TYPE	ORDERING CODE	
<b>PANEL MOUNTING</b>			
	NORMALLY OPEN (NO) SILVER CONTACT	S1	
	NORMALLY OPEN (NO) SILVER CONTACT (BREAK BEFORE MAKE)	S1S	
	NORMALLY OPEN (NO) SILVER CONTACT (MAKE BEFORE BREAK)	S1E	
	NORMALLY CLOSED (NC) SILVER CONTACT	S2	
	NORMALLY OPEN (NO) GOLD CONTACT	S3	
	NORMALLY CLOSED (NC) GOLD CONTACT	S4	
<b>BASE MOUNTING</b>			
	NORMALLY OPEN (NO) SILVER CONTACT	S5	
	NORMALLY CLOSED (NC) SILVER CONTACT	S6	
	NORMALLY OPEN (NO) GOLD CONTACTS	S7	
	NORMALLY CLOSED (NC) GOLD CONTACTS	S8	

## Common types of control and signalling devices Ø 22.5 P series

Description	Type of Actuator or Lense Assembly	Colour of Actuator or Lense	Contact Elements NO = S1 NC = S2 or Lamp Holder	Type of complete Control or Signalling Device	
Flush Pushbutton	P2AF3	Green	1NO	P2PSF310	
	P2AF8	Yellow	2NO+1NC	P2PSF821	
Projecting Pushbutton	P2AP2	Black	2NC	P2PSP202	
	P2AP4	Red	3NO+3NC	P2PSP433	
Booted Pushbutton	P2AB3BT7	Green	2NO	P2PSB3BT720	
	P2AB4BT7	Red	2NC	P2PSB4BT702	
Mushroom Pushbutton Spring return	P2AM2	Black	1NO+1NC	P2PSM211	
	P2AM4	Red	1NC	P2PSM401	
Mushroom Pushbutton latching turn to release	P2AML2	Black	1NC	P2PSML201	
	P2AML4	Red	2NO+2NC	P2PSML422	
Mushroom Pushbutton latching, key to release	P2AMLKB4	Red	1NO+1NC	P2PSMLKB411	
Selector Actuator(2 Pos)	P2AS2-2P	Black	1NO	P2PSS210-2P	
Selector Actuator(3 Pos)	P2AS2-3P	Black	1NO+1NC	P2PSS211-3P	
Key Actuator (2 Pos), key removable in both positions	P2AK2-2PB		1NO	P2PSK210-2PB	
Key Actuator (3 Pos), key removable in left & right positions	P2AK2-3PB		1NO+1NC	P2PSK211-3PB	
Twin Pushbutton marked "I O"	P2ATF2-F4-IO	Flush-Black	1 NO	P2PSTF210-F401-IO	
Flush - Flush		Flush-Red	1 NC		
Twin Pushbutton not marked	P2ATF3-P4	Flush-Green	1NO+1NC	P2PSTF311-P411	
Flush - Projecting		Proj-Red	1NO+1NC		
Flush Illuminated Pushbutton with integral LED for 24V DC	P2ALRF3L24DC	Green	1NO+1NC	P2PSLRF3L1124DC	
Projecting Illuminated Pushbutton with integral LED for 230V AC	P2ALRP4L230AC	Red	1NO+1NC	P2PSLRP4L11230AC	
Twin Luminous Pushbutton marked "I O"	P2ATL3-F2-F4 IO130	Lense-Green	1 NO + 1 NC	P2PSTL3F211-F401-IO130	
Flush - Flush direct connection (130V)		Flush-Black			
Twin Luminous Pushbutton not marked	P2ATLR5-F3-P4230	Lense-Amber	1 NO	P2PSTLR5F310-P401 230	
Flush - Projecting with resistance and (230AC)		Flush-Green			
Pilot Light for direct connection upto 130V	P2PLLA3	Green	2LHB130	P2PLB3130	
	P2PLLA4	Red	2LHB130	2PLPB4130	
Pilot Light through resistor and diode for 230 V AC. Bulb:130 V.	P2PLLA5	Amber	2LHBR230 AC	P2PLBR5230AC	
	P2PLLA6	Blue	2LHBR230 AC	P2PLBR6230AC	
Pilot Light with transformer for 230 V Bulb:24 V.	P2PLLA4	Red	2LHBT230/24	P2PLBT4230/24	
	P2PLLA3	Green	2LHBT230/24	P2PLBT3230/24	
Pilot Light with LED bulb for 110V AC Bulb: 110V	P2PLLA5	Amber	2LHLB110	P2PLB5LB110	
Pilot light economy type with integral LED for 220 DC	-	White	-	3PLBR1L220DC	

# TEKNIC

CE 

Control and Signaling Devices Ø 22.5 Clip on Plastic Series





## Control and signaling devices Ø 22.5 P4 Clip on series

### Salient features

This range of Ø 22.5 P4 Clip on series pushbuttons, selector switches, illuminated switches and pilot lights in engineering plastic construction have been designed to provide the following salient features:

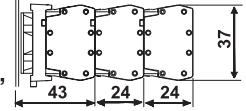
- Economy of space
- Aesthetically elegant
- Robust in materials of construction
- Simple to fix-Snap fitting
- Safe in operation
- Fixing method unaffected by excessive vibration unit does not rotate
- Very good flame resistance
- Shrouded terminals
- Protection against electrical shock

### Actuators

The circular actuators have black plastic bezels, and are functionally interchangeable on the different types of contact elements.

### Contact elements

The contact elements are double break. The elements are interchangeable & can be stacked without additional hardware. 1 to 6 elements (NO or NC) can be used with non illuminated actuators, whereas, 1 to 4 elements (NO or NC) can be used for illuminated actuators. **Gold plated NO and NC contact elements for low voltage, low current switching circuits, < 25 mA, are available. Base mounting elements are also available.**



### Illuminated pushbuttons & pilot lights

Pilot lights and illuminated switches are suitable for direct connection using bayonet cap multi chip LED bulb (with OAL max 28 mm). Supply voltage using Multichip Led Bulb ..... : 12V-230 VAC / DC

Pilot lights and illuminated actuators are available with LED bulbs suitable for operating at various voltages namely 12V, 24V, 110V and 230V AC/DC.

### Terminals

Contact elements and pilot lights are designed to have shrouded terminals with combi screws.

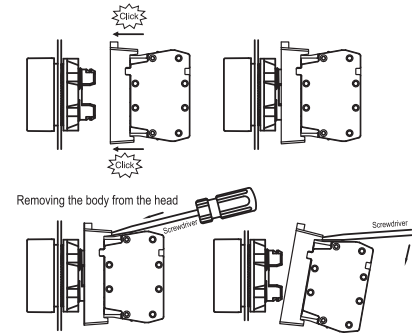
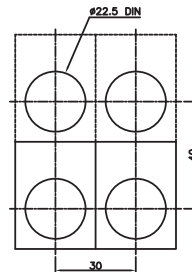
### Fixing

The Ø 22.5 P4 Clip on series control devices can be fixed in any position on panels of 1 to 5 mm thickness.

We recommend minimum fixing centres of 30mm X 40mm. However, the dimensions and configuration should be decided on the basis of the application.

The actuators, and the lense assemblies snap fit on the holding bracket.

Details of the assembly shown in diagram.



### Electrical and mechanical characteristics

#### Environment

Standards conformity	:	UL 508, EN 60947-5-1
Approvals	:	UL 508
Degree of protection	:	IP 65 as per IEC 60529, NEMA 4X, 12 as per UL 50
Ambient	:	- 25°C to + 70°C
Operating position	:	All positions
Pollution Degree	:	3

#### Contact Block

Rated insulation voltage	:	500 V																		
Rated thermal current	:	10 A																		
Contact operation	:	Slow break NO or NC																		
Make and break capacity	:	AC 15 4 A , 415 V AC																		
As per IEC 60947 - 5 - 1	:	DC 13 0.5 A , 110 V DC																		
Terminal capacity	:	Maximum 2 x 1.5 mm <sup>2</sup> or 1 x 2.5 mm <sup>2</sup> .Minimum 1 x 0.5 mm <sup>2</sup>																		
Terminal marking	:	1 - 2 for NC & 3 - 4 for NO																		
Short circuit protection	:	10 A HRC cartridge fuse, rated for resistive loading at 1000 A Prospective Current																		
Mechanical life	:	Over 1 million operations																		
Electrical rating	:																			
(for 1 million operating cycles, operating at 3600 cycles per hour, load factor 0.5)	:	<table border="0" style="display: inline-table; vertical-align: middle;"> <tr> <td>AC 15</td> <td><math>\frac{V}{A}</math></td> <td>24</td> <td>120</td> <td>230</td> </tr> <tr> <td></td> <td></td> <td>4</td> <td>3</td> <td>2</td> </tr> </table> <table border="0" style="display: inline-table; vertical-align: middle; margin-left: 20px;"> <tr> <td>DC 13</td> <td><math>\frac{V}{A}</math></td> <td>24</td> <td>110</td> </tr> <tr> <td></td> <td></td> <td>0.5</td> <td>0.2</td> </tr> </table>	AC 15	$\frac{V}{A}$	24	120	230			4	3	2	DC 13	$\frac{V}{A}$	24	110			0.5	0.2
AC 15	$\frac{V}{A}$	24	120	230																
		4	3	2																
DC 13	$\frac{V}{A}$	24	110																	
		0.5	0.2																	
Screw clamp tightening torque	:	0.8 Nm (Nominal recommended)																		

### Modules for pilot light & illuminated switches with LED bulb (BA9S cap)

Current consumptions (applicable to all colours)

24 V AC/DC, 110 VAC & 240 VAC	:	max. 20 mA
Terminal capacity	:	Maximum 2 x 1.5 mm <sup>2</sup> or 1 x 2.5 mm <sup>2</sup> . Minimum 1 x 0.5 mm <sup>2</sup>
Service life (at nominal voltage and at ambient temperature at 25°C)	:	100,000 hours

# TEKNIC

Control & Signalling Devices 22.5 Ø  
P4 Clip on Plastic Series

MOMENTARY ACTUATORS			
	TYPE	COLOUR	ORDERING CODE
		White	P4AF1
		Black	P4AF2
	Flush	Green	P4AF3
		Red	P4AF4
		Blue	P4AF6
		Yellow	P4AF8
			
	Flush with Arrow marking	White	P4AF1BA
		Black	P4AF2WA
		White	P4AP1
		Black	P4AP2
	Projecting	Green	P4AP3
		Red	P4AP4
		Blue	P4AP6
		Yellow	P4AP8
		White	P4AF1RR
		Black	P4AF2RR
	Flush Relay Reset	Green	P4AF3RR
		Red	P4AF4RR
		Blue	P4AF6RR
		Yellow	P4AF8RR
		White	P4AF1+2BT7
		Black	P4AF2+2BT7
	Booted	Green	P4AF3+2BT7
		Red	P4AF4+2BT7
		Blue	P4AF6+2BT7
		Yellow	P4AF8+2BT7

# TEKNIC

Control & Signalling Devices 22.5 Ø

P4 CLIP ON PLASTIC SERIES

STOP MUSHROOM HEAD ACTUATORS			
	TYPE	COLOUR	ORDERING CODE
			
	Push Pull	Black	P4AMPP4
	Ø 40 mm	Red	P4AMPP4
			
	Latching	Black	P4AMLS2
	Ø 30mm	Red	P4AMLS4
			
	Latching	Black	P4AML2
	Ø 40mm	Red	P4AML4
			
	Latching with Key	Black	P4AMLKB2
	Ø 40mm	Red	P4AMLKB4
			
	Push Pull	Black	P4AMPPJ2
	Ø 60 mm	Red	P4AMPPJ4
			
	Latching	Black	P4AMLJ2
	Ø 60mm	Red	P4AMLJ4

# TEKNIC



Control & Signalling Devices 22.5 Ø

## P4 CLIP ON PLASTIC SERIES

MUSHROOM HEAD ACTUATORS			
	TYPE	COLOUR	ORDERING CODE
		Black	P4AM2
	Momentary	Green	P4AM3
	Ø 40mm	Red	P4AM4
		Blue	P4AM6
		Yellow	P4AM8
	Momentary	Black	P4AMJ2
	Ø 60mm	Green	P4AMJ3
		Red	P4AMJ4
		Blue	P4AMJ6
		Yellow	P4AMJ8
EMERGENCY STOP MUSHROOM HEAD ACTUATORS			
	TYPE	COLOUR	ORDERING CODE
			
	Trigger type	Black	P4AMLT2
	Press to Lock	Red	P4AMLT4
	turn to release		
	Ø 40 mm		
			
	Trigger type	Black	P4AMLTKB2
	Press to Lock	Red	P4AMLTKB4
	key to release		
	Ø 40 mm		

# TEKNIC

Control & Signalling Devices 22.5 Ø  
P4 Clip on Plastic Series

SELECTOR ACTUATORS				
	TYPE	COLOUR	ORDERING CODE	
	2 position STAY PUT	Black	P4AS2-2P	
	with extended knob			P4AS2E-2P
	2 position MOMENTARY	Black	P4AS2-2PSR	
	with extended knob			P4AS2E-2PSR
		3 position STAY PUT	Black	P4AS2-3P
		with extended knob		
3 position MOMENTARY on both sides		Black	P4AS2-3PSR	
with extended knob				P4AS2E-3PSR
3 position MOMENTARY on right		Black	P4AS2-3PSRR	
with extended knob				P4AS2E-3PSRR
3 position MOMENTARY on left	Black	P4AS2-3PSRL		
with extended knob			P4AS2E-3PSRL	

# TEKNIC

Control & Signalling Devices 22.5 Ø

P4 Clip on Plastic Series




## KEY SELECTOR ACTUATORS



TYPE	COLOUR	ORDERING CODE
2 Position Stayput	Black	P4AK2-2PB
		P4AK2-2PO
		P4AK2-2PI
Spring Return	Black	P4AK2-2POSR
3 Position Stayput	Black	P4AK2-3PA
	Black	P4AK2-3PB
	Black	P4AK2-3PC
Spring Return	Black	P4AK2-3PSR
Spring Return right to centre	Black	P4AK2-3PSRR
Spring Return left to centre	Black	P4AK2-3PSRL
<b>X stands for position in which key is removable</b>		

# TEKNIC

Control & Signalling Devices 22.5 Ø  
P4 Clip on Plastic Series

TWIN ACTUATORS			
	TYPE	COLOUR	ORDERING CODE
	Double Flush	Green	P4ATF3F4
	w/o IO Mark	Red	
	Double Flush	Green	P4ATF3F4(IO)
	with IO Mark	Red	
	1 Flush,	Green	P4ATF3P4
	1 Projecting	Red	
	w/o IO Mark		
	1 Flush,	Green	P4ATF3P4(IO)
	1 Projecting	Red	
	with IO Mark		

# TEKNIC




**Control & Signalling Devices 22.5 Ø**  
**P4 Clip on Plastic Series**

<b>ILLUMINATED MOMENTARY ACTUATORS WITH LED BULB</b>			
	TYPE	COLOUR	ORDERING CODE
<b>Illuminated Flush, Momentary</b>			
			
	LED Bulb, BA9S type	White LED Bulb / White Lens	P4ALF1LB(S)
	24V AC/DC,	Green LED Bulb / Green Lens	P4ALF3LB
	110VAC, 110VDC	Red LED Bulb / Red Lens	P4ALF4LB
	230VAC, 220VDC	Amber LED Bulb / Amber Lens	P4ALF5LB
		Blue LED Bulb / Blue Lens	P4ALF6LB
		White LED Bulb / Clear Lens	P4ALF7LB(S)
		Yellow LED Bulb / Yellow Lens	P4ALF8LB
Please mention the voltage required after the ordering code			
<b>Illuminated Projecting, Momentary</b>			
			
	LED Bulb, BA9S type	White LED Bulb / White Lens	P4ALF1LB(S)
	24V AC/DC,	Green LED Bulb / Green Lens	P4ALF3LB
	110VAC, 110VDC	Red LED Bulb / Red Lens	P4ALF4LB
	230VAC, 220VDC	Amber LED Bulb / Amber Lens	P4ALF5LB
		Blue LED Bulb / Blue Lens	P4ALF6LB
		White LED Bulb / Clear Lens	P4ALF7LB(S)
		Yellow LED Bulb / Yellow Lens	P4ALF8LB
Please mention the voltage required after the ordering code			



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Control & Signalling Devices 22.5 Ø  
P4 Clip on Plastic Series





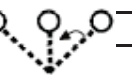
ILLUMINATED SELECTOR WITH LED BULB				
	TYPE	COLOUR	ORDERING CODE	
	<b>2 Position, Illuminated selector actuator</b>			
	<b>Stayput Type</b>  <b>LED Bulb BA9S type</b> 24V AC/DC, 110VAC, 110VDC 230VAC, 220VDC		White LED Bulb / White Lens	P4ASL1LB(S)-2P
			Green LED Bulb / Green Lens	P4ASL3LB2P
			Red LED Bulb / Red Lens	P4ASL4LB-2P
			Amber LED Bulb / Amber Lens	P4ASL5LB2P
			Blue LED Bulb / Blue Lens	P4ASL6LB-2P
			White LED Bulb / Clear Lens	P4ASL7LB(S)-2P
			Yellow LED Bulb / Yellow Lens	P4ASL8LB-2P
		Please mention the voltage required after the ordering code		
	<b>Spring Return</b>  <b>LED Bulb BA9S type</b> 24V AC/DC, 110VAC, 110VDC 230VAC, 220VDC		White LED Bulb / White Lens	P4ASL1LB(S)-2PSR
			Green LED Bulb / Green Lens	P4ASL3LB2PSR
			Red LED Bulb / Red Lens	P4ASL4LB-2PSR
			Amber LED Bulb / Amber Lens	P4ASL5LB2PSR
			Blue LED Bulb / Blue Lens	P4ASL6LB-2PSR
			White LED Bulb / Clear Lens	P4ASL7LB(S)-2PSR
		Yellow LED Bulb / Yellow Lens	P4ASL8LB-2PSR	
Please mention the voltage required after the ordering code				

# TEKNIC

Control & Signalling Devices 22.5 Ø


P4 Clip on Plastic Series

## ILLUMINATED SELECTOR WITH LED BULB

	TYPE	Colour of LED / Lens	ORDERING CODE
<b>3 Position, Illuminated Selector Actuator</b>			
	<b>Stayput type</b>		
	LED Bulb	White LED Bulb / White Lens	P4ASL1LB(S)-3P
	BA9S type	Green LED Bulb / Green Lens	P4ASL3LB-3P
	24V AC/DC, 	Red LED Bulb / Red Lens	P4ASL4LB-3P
	110VAC, 110VDC	Amber LED Bulb / Amber Lens	P4ASL5LB-3P
	230VAC, 220VDC	Blue LED Bulb / Blue Lens	P4ASL6LB-3P
		White LED Bulb / Clear Lens	P4ASL7LB(S)-3P
		Yellow LED Bulb / Yellow Lens	P4ASL8LB-3P
	<b>Please mention the voltage required after the ordering code</b>		
	<b>Spring return both sides</b>		
	LED Bulb	White LED Bulb / White Lens	P4ASL1LB(S)-3PSR
	BA9S type	Green LED Bulb / Green Lens	P4ASL3LB-3PSR
	24V AC/DC, 	Red LED Bulb / Red Lens	P4ASL4LB-3PSR
	110VAC, 110VDC	Amber LED Bulb / Amber Lens	P4ASL5LB-3PSR
	230VAC, 220VDC	Blue LED Bulb / Blue Lens	P4ASL6LB-3PSR
		White LED Bulb / Clear Lens	P4ASL7LB(S)-3P
		Yellow LED Bulb / Yellow Lens	P4ASL8LB-3PSR
	<b>Please mention the voltage required after the ordering code</b>		
<b>Spring return left to centre</b>			
LED Bulb	White LED Bulb / White Lens	P4ASL1LB(S)-3PSRL	
BA9S type	Green LED Bulb / Green Lens	P4ASL3LB-3PSRL	
24V AC/DC, 	Red LED Bulb / Red Lens	P4ASL4LB-3PSRL	
110VAC, 110VDC	Amber LED Bulb / Amber Lens	P4ASL5LB-3PSRL	
230VAC, 220VDC	Blue LED Bulb / Blue Lens	P4ASL6LB-3PSRL	
	White LED Bulb / Clear Lens	P4ASL7LB(S)-3PL	
	Yellow LED Bulb / Yellow Lens	P4ASL8LB-3PSRL	
<b>Please mention the voltage required after the ordering code</b>			
<b>Spring return right to centre</b>			
BA9S type 	Green LED Bulb / Green Lens	P4ASL3LB-3PSRR	
24V AC/DC,	Red LED Bulb / Red Lens	P4ASL4LB-3PSRR	
110VAC, 110VDC	Amber LED Bulb / Amber Lens	P4ASL5LB-3PSRR	
230VAC, 220VDC	Blue LED Bulb / Blue Lens	P4ASL6LB-3PSRR	
	White LED Bulb / Clear Lens	P4ASL7LB(S)-3PR	
	Yellow LED Bulb / Yellow Lens	P4ASL8LB-3PSRR	
<b>Please mention the voltage required after the ordering code</b>			


# TEKNIC

Control & Signalling Devices 22.5 Ø  
P4 Clip on Plastic Series

<b>TWIN ILLUMINATED ACTUATORS WITH LED BULB</b>			
	TYPE	COLOUR	ORDERING CODE
	<b>Twin Illuminated Flush/Flush Actuator with IO Marked</b>		
	LED Bulb, BA9S type	Green Flush Actuator	
	24V AC/DC,	Red Flush Actuator	P4ATL5LBF3F4 (IO)
	110VAC, 110VDC	Amber Lens / Amber LED	
	230VAC, 220VDC		
	<b>Please mention the voltage required after the ordering code</b>		
	<b>Twin Illuminated Flush/Projecting Actuator IO Marked</b>		
	LED Bulb BA9S type	Green Flush Actuator	
	24V AC/DC,	Red Flush Actuator	P4ATL5LBF3P4 (IO)
	110VAC, 110VDC	Amber Lens / Amber LED	
230VAC, 220VDC			
<b>Please mention the voltage required after the ordering code</b>			

# TEKNIC


**Control & Signalling Devices 22.5 Ø**  
**P4 Clip on Plastic Series**

<b>EMERGENCY STOP MUSHROOM ILLUMINATED ACTUATORS, LATCHING, WITH LED BULB</b>			
	TYPE	COLOUR	ORDERING CODE
	<b>Mushroom Illuminated Actuator, Trigger Type, Press to Lock - Turn to release</b>		
			
	LED Bulb, BA9S type		
	24V AC/DC,	Red	P4ALMLT4LB
	110VAC, 110VDC		
	230VAC, 220VDC		
Please mention the voltage required after the ordering code			

# TEKNIC



Control & Signalling Devices 22.5 Ø

P4 Clip on Plastic Series

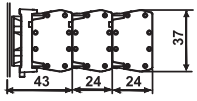
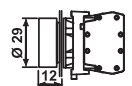
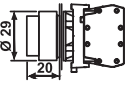
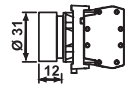
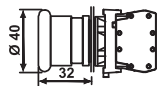
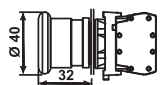
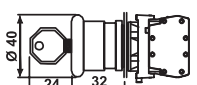

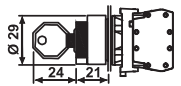
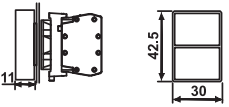
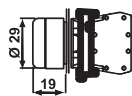
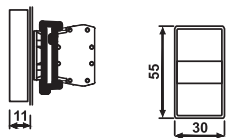
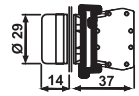
PILOT LIGHTS WITH LED BULB			
	TYPE	COLOUR	ORDERING CODE
	<b>Pilot Light</b>		
			
	LED Bulb, BA9S type	White LED Bulb / White Lens	P4PLB1LB(S)
	24V AC/DC,	Green LED Bulb / Green Lens	P4PLB3LB
	110VAC, 110VDC	Red LED Bulb / Red Lens	P4PLB4LB
	230VAC, 220VDC	Amber LED Bulb / Amber Lens	P4PLB5LB
		Blue LED Bulb / Blue Lens	P4PLB6LB
		White LED Bulb / Clear Lens	P4PLB7LB(S)
		Yellow LED Bulb / Yellow Lens	P4PLB8LB
	Please mention the voltage required after the ordering code		

# TEKNIC

## Control & Signalling Devices 22.5 Ø P4 Clip on Plastic Series

CONTACT ELEMENTS		
	TYPE	ORDERING CODE
 <p>Green TEKNIC C1 contact element with 3 contacts (1 NO, 2 NC). Specifications: AC 15: 415V, 4A; DC 15: 110V, 0.5A.</p>	<b>PANEL MOUNTING</b>	
	NORMALLY OPEN SILVER CONTACTS	C1
	NORMALLY CLOSED SILVER CONTACTS	C2
	NORMALLY OPEN GOLD CONTACTS	C3
	NORMALLY CLOSED GOLD CONTACTS	C4
	<b>BASE MOUNTING</b>	
	NORMALLY OPEN SILVER CONTACTS	C5
	NORMALLY CLOSED SILVER CONTACTS	C6
	NORMALLY OPEN GOLD CONTACTS	C7
	NORMALLY CLOSED GOLD CONTACTS	C8
 <p>Red TEKNIC C2 contact element with 2 contacts (1 NO, 1 NC). Specifications: AC 15: 415V, 4A; DC 15: 110V, 0.5A.</p>		

## Common types of control and signalling devices Ø 22.5 P4 Clip on series

Description	Type of Actuator or Lense Assembly	Colour of Actuator or Lense	Contact Elements NO = C1 NC = C2 or Lamp Holder	Type of complete Control or Signalling Device	
Flush Pushbutton	P4AF3	Green	1NO	P4PSF310	
	P4AF8	Yellow	2NO+1NC	P4PSF821	
Projecting Pushbutton	P4AP2	Black	2NC	P4PSP202	
	P4AP4	Red	3NO+3NC	P4PSP433	
Booted Pushbutton	P4AF3+2BT7	Green + clear boot	2NO	P4PSF320+2BT7	
	P4AF4+2BT7	Red + clear boot	2NC	P4PSF402+2BT7	
Mushroom Pushbutton Spring return	P4AM2	Black	1NO+1NC	P4PSM211	
	P4AM4	Red	1NC	P4PSM401	
Mushroom Pushbutton latching turn to release	P4AML2	Black	1NC	P4PSML201	
	P4AML4	Red	2NO+2NC	P4PSML422	
Mushroom Pushbutton latching, key to release	P4AMLKB4	Red	1NO+1NC	P4PSMLKB411	
Selector Actuator (2 Pos)	P4AS2-2P	Black	1NO	P4PSS210-2P	
Selector Actuator (3 Pos)	P4AS2-3P	Black	1NO+1NC	P4PSS211-3P	
Key Actuator (2 Pos), key removable in both positions Key Actuator (3 Pos), key removable in left & right positions	P4AK2-2PB		1NO	P4PSK210-2PB	
	P4AK2-3PB		1NO+1NC	P4PSK211-3PB	
Twin Pushbutton marked "I O"	P4ATF2-F4-IO	Flush-Green	1 NO	P4PSTF310-F401-IO	
Flush - Flush		Flush-Red	1 NC		
Flush Illuminated Pushbutton with multichip LED bulb, direct connection	P4ALF3LB24DC	Green	1NO+1NC	P4PSLF3LB1124	
Twin Luminous Pushbutton Without "I O"making Flush - Flush with LED Bulb (240V AC)	P4ATL5LB-F3 -F4230AC	Lense-Amber Flush-Green Flush-Red	1 NO 1 NC	P4PSTL5LBF310-F401230AC	
Pilot Light with LED bulb for 230V AC Bulb: 230V	P4PLLA5	Amber	4LHLB230	P4PLB5LB230	

# TEKNIC

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April 2019

CH:MT:07  
REV:A

## LED Pilot Light Ø 16.5 plastic construction



### General Characteristics:

This range of LED Monoblock Pilot Light Ø 16.5 is available in round & square head in a variety of colours. This Pilot Light can be fixed in any position on panels of thickness varying from 1 mm to 6 mm. The pilot light is fastened to the panel with a lock ring. We recommend min fixing centres of 25 mm x 25 mm.

Pilot lights are available with integral LED's suitable for operating at various voltages, namely 6 V, 12 V, 24 V, 30 V, 48 V, 63 V, 110 V, 125 V & 240 V AC / DC.

### Electrical and mechanical characteristics

#### A) Mechanical Characteristics

Applicable Standard	UL 508 IEC 60947-5-1 CSA 22.2
Degree Of Protection	IP 65 (as per IEC 60529) Dust & water tight
Operating Conditions	+ 70° C to -25° C
Contact Material	Brass (tin plated)
Corrosion Protection	All metallic parts are electroplated for corrosion protection
Terminal Torque	0,5 Nm
Viewing Angle	More than 100°
Optical Axial intensity	More than 100 mcd for all colors

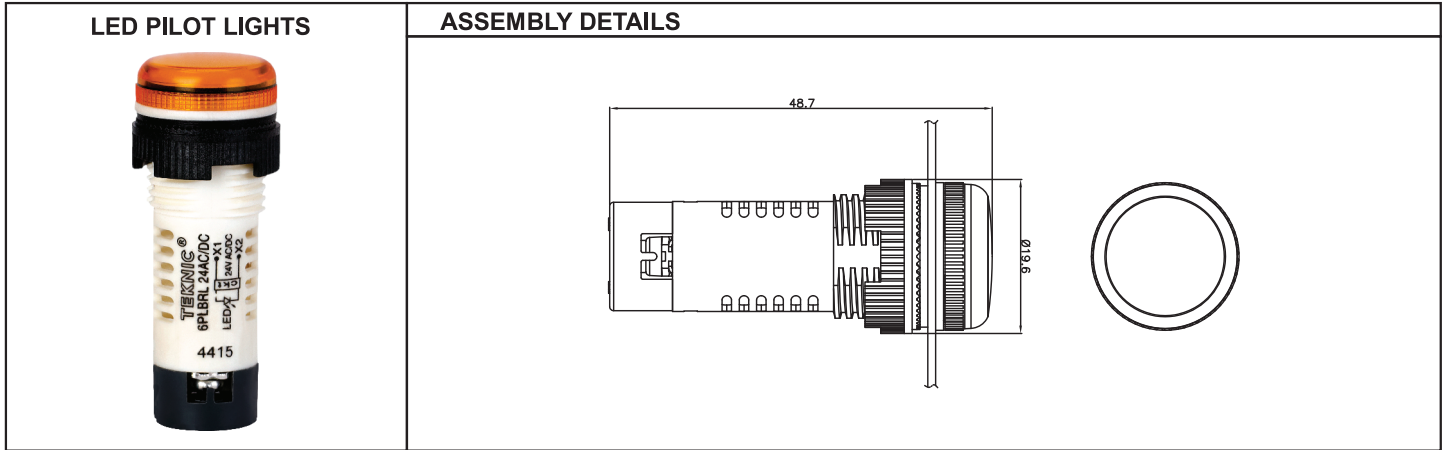
#### B) Electrical Characteristics

Rating	Rated 6 VAC / DC, 12 VAC / DC, 24 AC / DC, 110 AC, 110 DC, 240 AC & 220 DC	
Terminal Capacity	Rigid	Flexible
	2 X 0.75 mm <sup>2</sup> (max)	1 X 0.75 mm <sup>2</sup> (max)
	1 X 0.5 mm <sup>2</sup> (min)	1 X 0.5 mm <sup>2</sup> (min)
	1 X 1.5 mm <sup>2</sup> (min)	2 X 0.5 mm <sup>2</sup> (mix)
Dielectric Test	2,5 KV	
Rated Insulation Voltage	500 VDC	
Polarity Protection	Nil	
Low Voltage Protection	20% of Rated Voltage	
Current Consumption	Max. 20 mA for AC Circuits Max. 15 mA for DC Circuits	



# TEKNIC

## 16.5 Ø - PILOT LIGHTS WITH INTEGRAL LED



### SPECIFIC VOLTAGE

VOLTAGE	COLOUR	ORDERING CODE	COLOUR	ORDERING CODE	COLOUR	ORDERING CODE	COLOUR	ORDERING CODE	COLOUR	ORDERING CODE
12 AC/DC	<input type="radio"/>	6PLBR1L(S)12	<input type="radio"/>	6PLBR3L12	<input type="radio"/>	6PLBR4L12	<input type="radio"/>	6PLBR5L12	<input type="radio"/>	6PLBR6L12
	<input type="radio"/>	6PLBR7L(S)12	<input type="radio"/>	6PLBR8L12	<input type="radio"/> Translucent Lens / White LED		<input type="radio"/> Transparent Lens / White LED			
24 AC/DC	<input type="radio"/>	6PLBR1L(S)24	<input type="radio"/>	6PLBR3L24	<input type="radio"/>	6PLBR4L24	<input type="radio"/>	6PLBR5L24	<input type="radio"/>	6PLBR6L24
	<input type="radio"/>	6PLBR7L(S)24	<input type="radio"/>	6PLBR8L24	<input type="radio"/> Translucent Lens / White LED		<input type="radio"/> Transparent Lens / White LED			
110 AC	<input type="radio"/>	6PLBR1L(S)110AC	<input type="radio"/>	6PLBR3L110AC	<input type="radio"/>	6PLBR4L110AC	<input type="radio"/>	6PLBR5L110AC	<input type="radio"/>	6PLBR6L110AC
	<input type="radio"/>	6PLBR7L(S)110AC	<input type="radio"/>	6PLBR8L110AC	<input type="radio"/> Translucent Lens / White LED		<input type="radio"/> Transparent Lens / White LED			
110 DC	<input type="radio"/>	6PLBR1L(S)110DC	<input type="radio"/>	6PLBR3L110DC	<input type="radio"/>	6PLBR4L110DC	<input type="radio"/>	6PLBR5L110DC	<input type="radio"/>	6PLBR6L110DC
	<input type="radio"/>	6PLBR7L(S)110DC	<input type="radio"/>	6PLBR8L110DC	<input type="radio"/> Translucent Lens / White LED		<input type="radio"/> Transparent Lens / White LED			
240 AC	<input type="radio"/>	6PLBR1L(S)240AC	<input type="radio"/>	6PLBR3L240AC	<input type="radio"/>	6PLBR4L240AC	<input type="radio"/>	6PLBR5L240AC	<input type="radio"/>	6PLBR6L240AC
	<input type="radio"/>	6PLBR7L(S)240AC	<input type="radio"/>	6PLBR8L240AC	<input type="radio"/> Translucent Lens / White LED		<input type="radio"/> Transparent Lens / White LED			
220 DC	<input type="radio"/>	6PLBR1L(S)220DC	<input type="radio"/>	6PLBR3L220DC	<input type="radio"/>	6PLBR4L220DC	<input type="radio"/>	6PLBR5L220DC	<input type="radio"/>	6PLBR6L220DC
	<input type="radio"/>	6PLBR7L(S)220DC	<input type="radio"/>	6PLBR8L220DC	<input type="radio"/> Translucent Lens / White LED		<input type="radio"/> Transparent Lens / White LED			

Note: Other voltages namely 6 V, 30 V, 48 V, 63.5 V & 125 V DC available on request

# TEKNIC



Control & Signalling devices Ø 22.5 plastic construction  
Modular Series



# TEKNIC

## Control and signalling devices in plastic construction

### Salient Features

This range of Ø 22.5 devices plastic series namely momentary push buttons, latching push buttons, mushroom push buttons, selector switches, key selector switches, pilot lights have been designed to provide a compact series of products with a competitive edge.

This range ensures high reliability with cost efficiency. The range has been designed to provide the following salient features:

- Safe and Reliable in operation
- Single or double integral contact elements (1 NO, 1 NC, 1 NO +1 NC, 2 NO, 2 NC)
- Aesthetically elegant
- Robust design
- Easy Mounting
- Shrouded Terminals

### Push Buttons

The push buttons are circular in design having a dia of 22.5. The push buttons have a combination of the actuator and contact element, single or double (one or two) integral contact elements.

### Pilot Light

Pilot lights are available with integral LED's suitable for operating at various voltages, namely 6 V, 12 V, 24 V, 30 V, 48 V, 63 V, 110 V, 125 V, 240 V and 277 V AC/DC.

Pilot lights are also available with integral circuit which allows the pilot light to operate at any voltage from 24 V to 240 V AC or 220 V DC.

Pilot lights are also available for direct connection with multi chip LED bulbs with BA9S cap for the following voltages: 6 V, 12 V, 24 V, 30 V, 48 V, 110 V DC, 110 V AC, 240 V AC, and 220 V DC.

Pilot lights are also available with dual colour integral LED's in standard red and green colours suitable for operating at 24 V, 48 V, 110 V and 240 V AC or 220 V DC. Other colour combinations are available on request.

### Terminals

Push buttons and pilot lights are designed to have shrouded terminals with combi screws.

### Fixing

The integrated push button and pilot light range can be fixed in any position on panels of 1 to 5 mm thickness. The recommended fixing centres are 30 mm x 40 mm. The push button and pilot light are fixed on the panel with the help of a locking nut.

### Electrical and mechanical characteristics

Environment	
Standards Conformity	UL 508, IEC 60947-5-1
	UL 508, IEC 60947-5-5 (For E stop)
Approvals	UL 508
Degree of Protection	IP 54 as per IEC 60529
Pollution Degree	3
Ambient	-25° C to + 70° C
Storage	-25° C to + 40° C


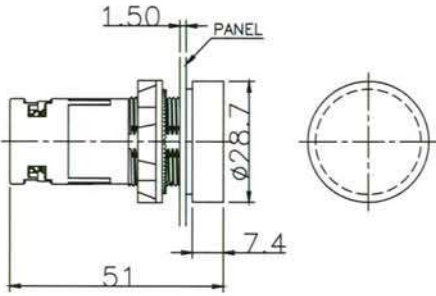
Electrical Characteristics	
Rating	for AC: C 300, AC 15-240V, make current 7.5 A, break current 0.75 A
	Thermal current 2.5 A
	for DC: R 300, DC 13-250V, make and break current 0.10 A
	Thermal current 1.0 A
Type of contact	NC, NO, C/O, slow break
Positive operation	All functions incorporating an NC contact have positive opening (IEC 60947-5-1)
Terminal capacity	Max 2 x 1.5 mm <sup>2</sup> (Pin type lugs)
	Min 1 x 0.5 mm <sup>2</sup> (Pin/fork type lugs)
	Max 1 x 2.5 mm <sup>2</sup> (Pin/fork type lugs)
Screw clamp tightening Torque	0.8 Nm (nominal), 1.2 Nm (maximum) Screw head compatible with Pozidrive or Phillips screw driver (size 1) and flat screw driver (size 4 and 5.5)
Short circuit protection	4A, (gG cartridge fuse) (IEC 60947-5-1) at 1000A Prospective Current
Rated Insulation voltage	U <sub>i</sub> = 250 V
Rated impulse withstand Voltage	U <sub>imp</sub> = 6KV (IEC 60947-5-1)
Dielectric test	2.5KV (IEC 60947-5-1)
Rated insulation resistance	500 MΩ (IEC 60947-5-1)
Vibration resistance (for spring return, selector push button)	15g (Frequency 40 - 500 Hz) (IEC 60068-2-6)
Shock resistance (for spring return, selector push button)	70g 6ms pulse 18 shocks (IEC 60068-2-27)
Electrical shock resistance (mushroom latching)	under test

Mechanical Characteristics		
Push buttons (Mechanical Life)	Spring return	1 million operations
	Latching type	0.10 million operations
	Selector	0.5 million operations
	Mushroom Latching	0.02 million operations


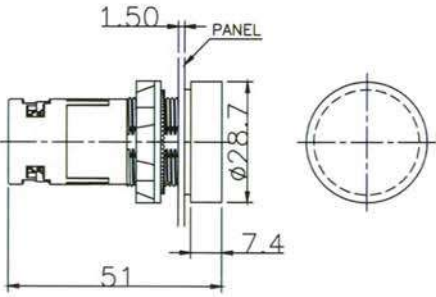
Pilot light with integral LED/Multichip LED bulbs	
Current consumption	
24 V AC/DC, 110 V AC, 240 V AC	max 20 mA
110 V DC	max 15 mA
220 V DC	max 10 mA
Service life at nominal voltage and at ambient temp of 25° C	1,00,00 hours
Voltage variations	< 20 % of rated voltage >
Short circuit protection	on specific request
Terminal capacity	min 1 x 0.5 mm <sup>2</sup> , max 2 x 1.5 mm <sup>2</sup> or 1x 2.5 mm <sup>2</sup>

# TEKNIC

## 22.5 Ø - PUSH BUTTONS WITH INTEGRATED CONTACTS

<p><b>MOMENTARY FLUSH PUSH BUTTONS</b></p> 	<p><b>ASSEMBLY DETAILS</b></p> 
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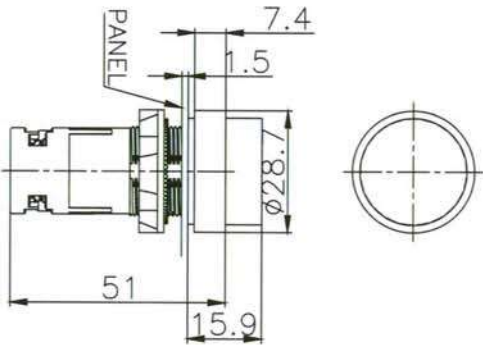
TYPE	COLOUR	ORDERING CODE	COLOUR	ORDERING CODE	COLOUR	ORDERING CODE	COLOUR	ORDERING CODE	COLOUR	ORDERING CODE	COLOUR	ORDERING CODE
<b>Flush push</b> button with 1 NO contact element		3PSF110		3PSF210		3PSF310		3PSF410		3PSF610		3PSF810
<b>Flush push</b> button with 1 NC contact element		3PSF101		3PSF201		3PSF301		3PSF401		3PSF601		3PSF801
<b>Flush push</b> button with 1 NO + 1NC contact element		3PSF111		3PSF211		3PSF311		3PSF411		3PSF611		3PSF811
<b>Flush push</b> button with 2 NO contact element		3PSF120		3PSF220		3PSF320		3PSF420		3PSF620		3PSF820
<b>Flush push</b> button with 2 NC contact element		3PSF102		3PSF202		3PSF302		3PSF402		3PSF602		3PSF802

<p><b>LATCHING FLUSH PUSH BUTTONS</b></p> 	<p><b>ASSEMBLY DETAILS</b></p> 
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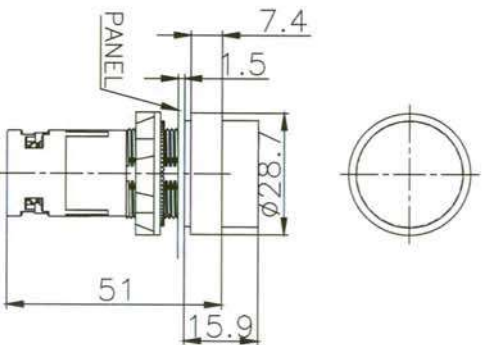
TYPE	COLOUR	ORDERING CODE	COLOUR	ORDERING CODE	COLOUR	ORDERING CODE	COLOUR	ORDERING CODE	COLOUR	ORDERING CODE	COLOUR	ORDERING CODE
<b>Flush push-push</b> push button with 1NO contact element		3PSFPP110		3PSFPP210		3PSFPP310		3PSFPP410		3PSFPP610		3PSFPP810
<b>Flush push-push</b> push button with 1NC contact element		3PSFPP101		3PSFPP201		3PSFPP301		3PSFPP401		3PSFPP601		3PSFPP801
<b>Flush push-push</b> push button with 1NO + 1NC contact element		3PSFPP111		3PSFPP211		3PSFPP311		3PSFPP411		3PSFPP611		3PSFPP811
<b>Flush push-push</b> push button with 2NO contact element		3PSFPP120		3PSFPP220		3PSFPP320		3PSFPP420		3PSFPP620		3PSFPP820
<b>Flush push-push</b> push button with 2NC contact element		3PSFPP102		3PSFPP202		3PSFPP302		3PSFPP402		3PSFPP602		3PSFPP802

# TEKNIC

## 22.5 Ø - PUSH BUTTONS WITH INTEGRATED CONTACTS

<b>MOMENTARY PROJECTING PUSH BUTTONS</b>	<b>ASSEMBLY DETAILS</b>
	

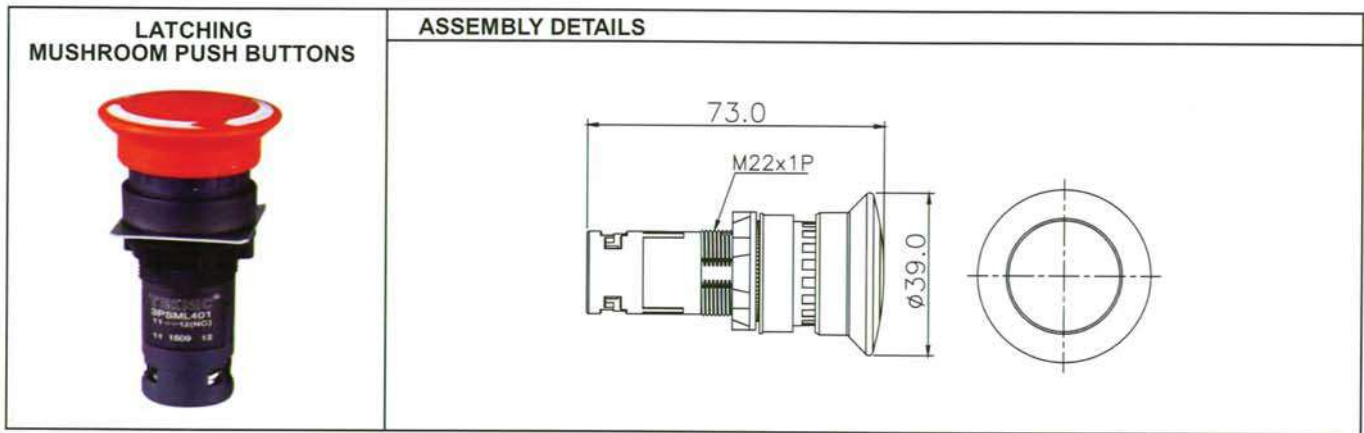
TYPE	COLOUR ORDERING CODE	COLOUR ORDERING CODE	COLOUR ORDERING CODE	COLOUR ORDERING CODE	COLOUR ORDERING CODE	COLOUR ORDERING CODE
Projecting push button with 1 NO contact element	3PSP110	3PSP210	3PSP310	3PSP410	3PSP610	3PSP810
Projecting push button with 1 NC contact element	3PSP101	3PSP201	3PSP301	3PSP401	3PSP601	3PSP801
Projecting push button with 1NO + 1NC contact element	3PSP111	3PSP211	3PSP311	3PSP411	3PSP611	3PSP811
Projecting push button with 2 NO contact element	3PSP120	3PSP220	3PSP320	3PSP420	3PSP620	3PSP820
Projecting push button with 2 NC contact element	3PSP102	3PSP202	3PSP302	3PSP402	3PSP602	3PSP802

<b>LATCHING PROJECTING PUSH BUTTONS</b>	<b>ASSEMBLY DETAILS</b>
	

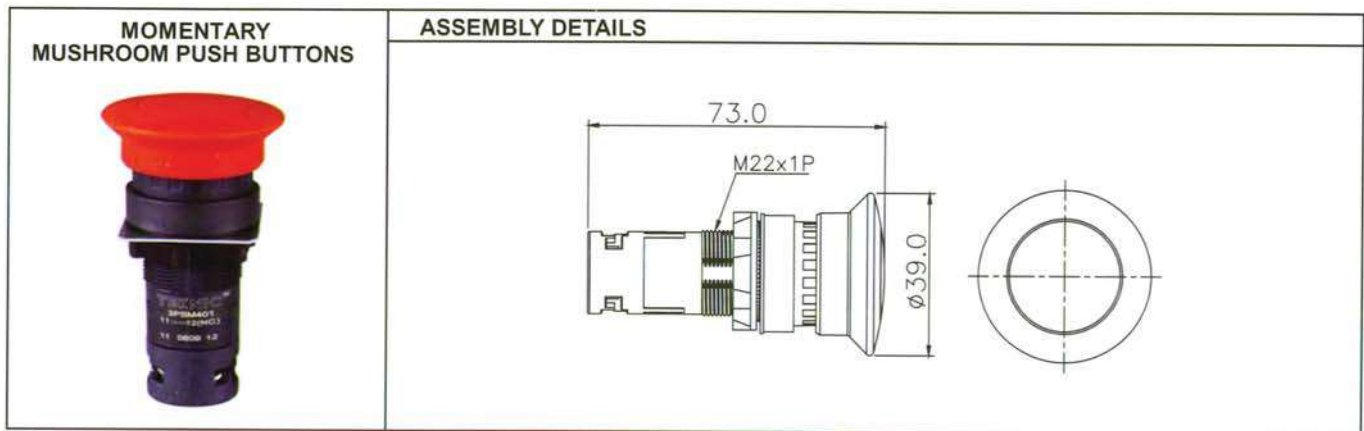
TYPE	COLOUR ORDERING CODE	COLOUR ORDERING CODE	COLOUR ORDERING CODE	COLOUR ORDERING CODE	COLOUR ORDERING CODE	COLOUR ORDERING CODE
Projecting push button with 1 NO contact element	3PSPPP110	3PSPPP210	3PSPPP310	3PSPPP410	3PSPPP610	3PSPPP810
Projecting push button with 1 NC contact element	3PSPPP101	3PSPPP201	3PSPPP301	3PSPPP401	3PSPPP601	3PSPPP801
Projecting push button with 1NO + 1NC contact element	3PSPPP111	3PSPPP211	3PSPPP311	3PSPPP411	3PSPPP611	3PSPPP811
Projecting push button with 2 NO contact element	3PSPPP120	3PSPPP220	3PSPPP320	3PSPPP420	3PSPPP620	3PSPPP820
Projecting push button with 2 NC contact element	3PSPPP102	3PSPPP202	3PSPPP302	3PSPPP402	3PSPPP602	3PSPPP802

# TEKNIC

## 22.5 Ø - PUSH BUTTONS WITH INTEGRATED CONTACTS




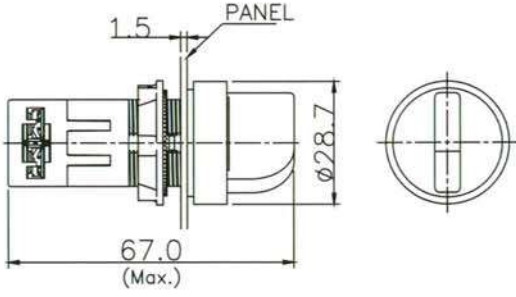
TYPE	COLOUR	ORDERING CODE
Mushroom Latching Ø 40mm with 1 NO contact element	●	3PSML410
Mushroom Latching Ø 40mm with 1 NC contact element	●	3PSML401
Mushroom Latching Ø 40mm with 1NO + 1 NC contact element	●	3PSML411
Mushroom Latching Ø 40mm with 2 NO contact element	●	3PSML420
Mushroom Latching Ø 40mm with 2 NC contact element	●	3PSML402




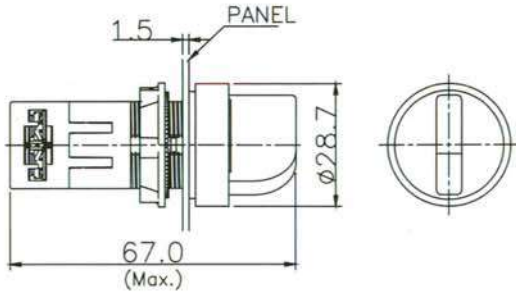
TYPE	COLOUR	ORDERING CODE
Mushroom Momentary Ø 40mm with 1 NO contact element	●	3PSM410
Mushroom Momentary Ø 40mm with 1 NC contact element	●	3PSM401
Mushroom Momentary Ø 40mm with 1 NO + 1 NC contact element	●	3PSM411
Mushroom Momentary Ø 40mm with 2 NO contact element	●	3PSM420
Mushroom Momentary Ø 40mm with 2 NC contact element	●	3PSM402

# TEKNIC

## 22.5 Ø - PUSH BUTTONS WITH INTEGRATED CONTACTS

<p><b>SELECTOR - 2 POSITION PUSH BUTTONS</b></p> 	<p><b>ASSEMBLY DETAILS</b></p> 
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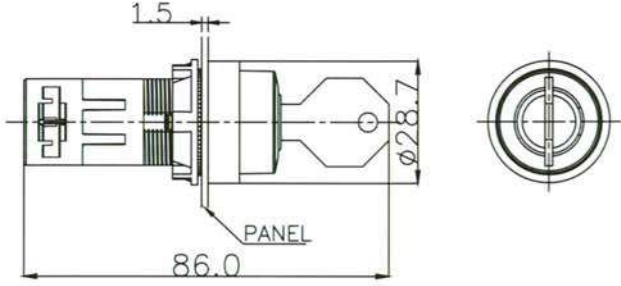
TYPE	COLOUR	ORDERING CODE
Selector push button, 2 position, with 1NO contact element	●	3PSS210-2P
Selector push button, 2 position, with 1NC contact element	●	3PSS201-2P
Selector push button, 2 position, with 1 NO + 1 NC contact element	●	3PSS211-2P
Selector push button, 2 position, with 2 NO contact element	●	3PSS220-2P
Selector push button, 2 position, with 2 NC contact element	●	3PSS202-2P

<p><b>SELECTOR - 3 POSITION PUSH BUTTONS</b></p> 	<p><b>ASSEMBLY DETAILS</b></p> 
--	---

TYPE	COLOUR	ORDERING CODE
Selector push button, 3 position, with 2 NO contact element	●	3PSS220-3P
Selector push button, 3 position, with 2 NC contact element	●	3PSS202-3P


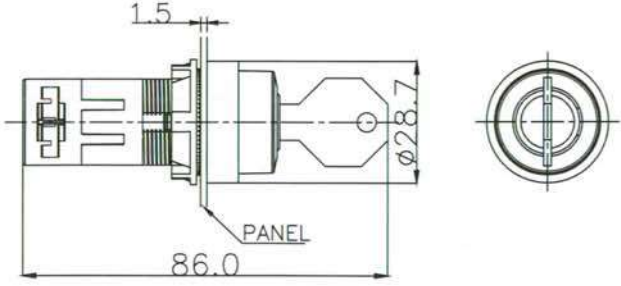
# TEKNIC

## 22.5 Ø - PUSH BUTTONS WITH INTEGRATED CONTACTS

<p><b>KEY SELECTOR - 2 POSITION PUSH BUTTONS</b></p> 	<p><b>ASSEMBLY DETAILS</b></p> 
--	---

TYPE	COLOUR	ORDERING CODE
Key selector push button 2 position, with 1NO contact element	●	3PSK210-2PO
Key selector push button 2 position, with 1NC contact element	●	3PSK201-2PO
Key selector push button 2 position, with 1 NO + 1 NC contact element	●	3PSK211-2PO
Key selector push button 2 position, with 2 NO contact element	●	3PSK220-2PO
Key selector push button 2 position, with 2 NC contact element	●	3PSK202-2PO

Note : 2PO indicates key removable in left position.

<p><b>KEY SELECTOR - 3 POSITION PUSH BUTTONS</b></p> 	<p><b>ASSEMBLY DETAILS</b></p> 
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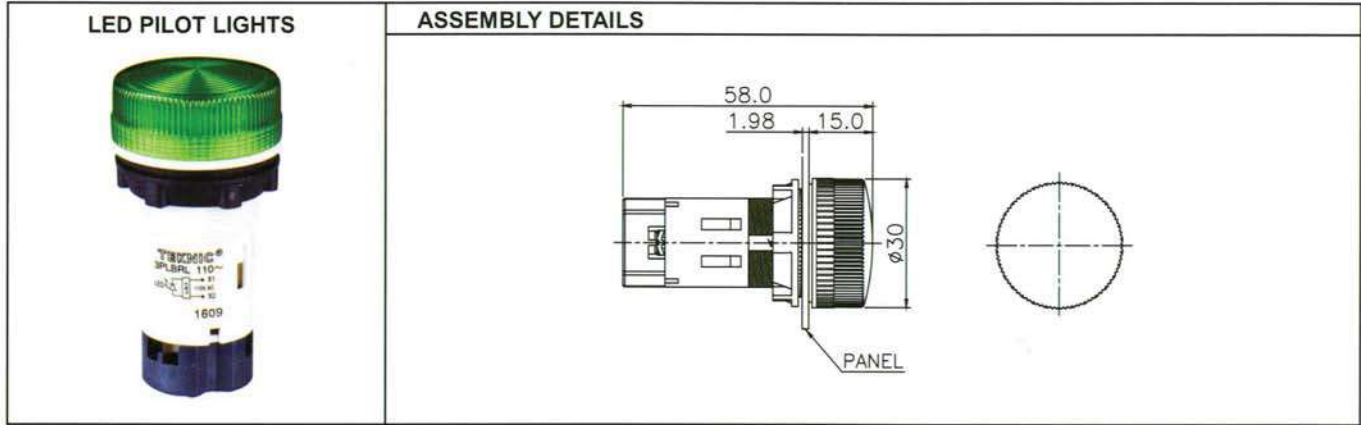
TYPE	COLOUR	ORDERING CODE
Key selector push button 3 position, with 2 NO contact element	●	3PSK220-3PC
Key selector push button 3 position, with 2 NC contact element	●	3PSK202-3PC

Note : 3PC indicates key removable in centre position.



# TEKNIC

## 22.5 Ø - PILOT LIGHTS WITH INTEGRAL LED



### SPECIFIC VOLTAGE

VOLTAGE	COLOUR	ORDERING CODE	COLOUR	ORDERING CODE	COLOUR	ORDERING CODE	COLOUR	ORDERING CODE	COLOUR	ORDERING CODE
24 AC/DC		3PLBR1L(S)24		3PLBR3L24		3PLBR4L24		3PLBR5L24		3PLBR6L24
		3PLBR7L(S)24		3PLBR8L24	Translucent Lens / White LED		Transparent Lens / White LED			
110 AC		3PLBR1L(S)110AC		3PLBR3L110AC		3PLBR4L110AC		3PLBR5L110AC		3PLBR6L110AC
		3PLBR7L(S)110AC		3PLBR8L110AC	Translucent Lens / White LED		Transparent Lens / White LED			
110 DC		3PLBR1L(S)110DC		3PLBR3L110DC		3PLBR4L110DC		3PLBR5L110DC		3PLBR6L110DC
		3PLBR7L(S)110DC		3PLBR8L110DC	Translucent Lens / White LED		Transparent Lens / White LED			
240 AC		3PLBR1L(S)240AC		3PLBR3L240AC		3PLBR4L240AC		3PLBR5L240AC		3PLBR6L240AC
		3PLBR7L(S)240AC		3PLBR8L240AC	Translucent Lens / White LED		Transparent Lens / White LED			
220 DC		3PLBR1L(S)220DC		3PLBR3L220DC		3PLBR4L220DC		3PLBR5L220DC		3PLBR6L220DC
		3PLBR7L(S)220DC		3PLBR8L220DC	Translucent Lens / White LED		Transparent Lens / White LED			

Note: Other voltages namely 12 V, 30 V, 48 V, 63.5 V, 125 V DC & 277 V AC available on request

### UNIVERSAL VOLTAGE

VOLTAGE	COLOUR	ORDERING CODE	COLOUR	ORDERING CODE	COLOUR	ORDERING CODE	COLOUR	ORDERING CODE	COLOUR	ORDERING CODE
24-240 AC/DC		3PLBR1L(S)U		3PLBR3LU		3PLBR4LU		3PLBR5LU		3PLBR6LU
		3PLBR7L(S)U		3PLBR8LU	Translucent Lens / White LED		Transparent Lens / White LED			

### DUAL COLOUR

VOLTAGE	COLOUR	ORDERING CODE
24 V AC/DC 48 V AC/DC 110 V AC 110 V DC 240 V AC 220 V DC	Translucent Lens Green LED Red LED	3PLBR134L

Note:  
a) 1- Translucent Lens 3- Green LED 4- Red LED  
b) Mention Voltage after ordering code  
c) Other LED combinations available on request

# TEKNIC

Accessories for Metal & Plastic Series  
Control and Signaling Devices Ø 22.5







# TEKNIC

## Accessories for Control & Signalling Devices 22.5 Ø

	TYPE	ORDERING CODE
	PADLOCK	2PAM7
	For Locking Estop in actuated position Head Ø 40mm	
	HSN CODE : 85389000	
	PADLOCK	2PAM7EH
	For Locking Estop in actuated / unactuated position Head Ø 40mm	
	HSN CODE : 85389000	
	SHROUD	2ESS1
	For Regular Estop Head Ø 40mm	
	HSN CODE :40169990	
	SHROUD	2ESS2
	For Regular Estop Head Ø 40mm	
	HSN CODE :40169990	
	SHROUD	2ESS3
	For Estop, For Estop, Trigger Type Head Ø 40mm	
	Shaft for fixing external Padlock	2ESS3S
	HSN CODE :40169990	
	PADLOCK	2PAM
	For Estop Head Ø 40mm	
	HSN CODE : 85389000	
	PADLOCK	2PAP
	For Flush / Projecting Actuator	
	HSN CODE : 85389000	









# TEKNIC

## Accessories for Control & Signalling Devices 22.5 Ø

	TYPE	COLOUR	ORDERING CODE
	SPARE LENS	TransWhite	2PLL1
	For Pilot lights with Filament Bulb	Green	2PLL3
		Red	2PLL4
		Amber	2PLL5
		Blue	2PLL6
		Clear	2PLL7
		Yellow	2PLL8
	HSN CODE : 85389000		
	SPARE LENS	TransWhite	2PLL1L
	For Pilot lights with LED	Green	2PLL3L
		Red	2PLL4L
		Amber	2PLL5L
		Blue	2PLL6L
		Clear	2PLL7L
	HSN CODE : 85389000	Yellow	2PLL8L
		SPARE LENS	TransWhite
For Illuminated Actuator with Filament Bulb		Green	2LAL3
		Red	2LAL4
		Amber	2LAL5
		Blue	2LAL6
		Clear	2LAL7
		Yellow	2LAL8
HSN CODE : 85389000			
	SPARE LENS	TransWhite	2LAL1L
	For Illuminated Actuator with LED	Green	2LAL3L
		Red	2LAL4L
		Amber	2LAL5L
		Blue	2LAL6L
		Clear	2LAL7L
	HSN CODE : 85389000	Yellow	2LAL8L

# TEKNIC

## Accessories for Control & Signalling Devices 22.5 Ø

SPARE BOOTS		ORDERING CODE
	Transparent Boot for nonilluminated flush actuators (2AF/ P2AF series)	2BT7
	Boot for illuminated flush actuators	2ALBT7
	Boot for twin non-illuminated actuators	2ATBT7
	Boot for twin illuminated actuators	2ATLBT7
	Boots for booted actuators (2AB series) HSN CODE : 40169990	2BT2
		2BT3
		2BT4
		2BT6
		2BT8
FILAMENT BULB		ORDERING CODE
	XX Please Put Voltage namely 12, 24, 30, 48, 130 HSN CODE : 85391000	BA9SXX
CLUSTER LED BULB	COLOUR	ORDERING CODE
	Please mention supply voltage 24VAC/DC after the part no. of LED bulbs	
	SPECIAL WHITE	MCB91(S)X3
	GREEN	MCB93X3
	RED	MCB94X3
	AMBER	MCB95X3
	BLUE	MCB96X3
	YELLOW	MCB98X3
HSN CODE :		
LED BULB	COLOUR	ORDERING CODE
	Please mention supply voltage 24 / 48 / 110AC / 110DC / 230AC / 220 DC after the part no. of LED bulbs	
	SPECIAL WHITE	MCB91(S)
	GREEN	MCB93
	RED	MCB94
	AMBER	MCB95
	BLUE	MCB96
	YELLOW	MCB98
HSN CODE : 85414090		


# TEKNIC

## Accessories for Control & Signalling Devices 22.5 Ø

SPARE KEY (for Key Selector Actuator)		ORDERING CODE
	Single Key	2KY 4241A-1
	Two Keys	2KY 4241A-2
	HSN CODE : 83017000	
SPARE KEY (for Key Selector Actuator)		ORDERING CODE
	Single Key	2KY 455 - 1
	Two Keys	2KY 455 - 2
	HSN CODE : 83017000	
BLANKING PLUG		ORDERING CODE
	22.5 Ø hole, Black	2BP2
	HSN CODE : 85389000	
SPANNER (Tightening Tool )		ORDERING CODE
	For tightening of lock nuts of plastic series actuator & pilot lights (22.5/16mm Ø)	P2SPNR
	HSN CODE : 85365010	
PUSH PUSH MECHANISM		ORDERING CODE
	For converting momentary actuators into latching type	2PPM
	HSN CODE : 85389000	
ADAPTOR		ORDERING CODE
	Adaptor for fixing 22.5 Ø devices in 30.5 Ø cutout.	2ADP
	HSN CODE : 85389000	
FLUSH MOUNTING ADAPTOR		ORDERING CODE
	Ø22.5 Plastic Series Flush Mounting Adaptor, Square Version	2FMADP-1
	HSN CODE : 85389000	
FIXING FLANGE		ORDERING CODE
	Metal Bracket for actuators & pilot lights	2BRK
FIXING FLANGE		ORDERING CODE
	Metallic series Bracket Safety Locking in Ø22.5	2BRKSL
	HSN CODE : 85389000	
FIXING FLANGE		ORDERING CODE
	Plastic Bracket for actuators & pilot lights	P2BRK
	HSN CODE : 85389000	

# TEKNIC

Accessories for Control & Signalling Devices 22.5 Ø

LEGEND PLATES (ANODIZED ALUMINIUM)					
1 POSITION			2 POSITION		
LEGEND	ORDERING CODE	LEGEND		ORDERING CODE	
START	2LP01	START	STOP	2LP28	
STOP	2LP02	UP	DOWN	2LP29	
FORWARD	2LP03	ON	OFF	2LP30	
REVERSE	2LP04	REV.	FWD.	2LP31	
UP	2LP05	AUTO	HAND	2LP32	
DOWN	2LP06	LOCAL	REMOTE	2LP33	
OPEN	2LP07	I	II	2LP34	
CLOSE	2LP08	O	I	2LP35	
AUTO	2LP09				
HAND	2LP10	3 POSITION			
SLOW	2LP11	LEGEND		ORDERING CODE	
FAST	2LP12	HAND	O	AUTO	2LP36
RESET	2LP13	SLOW	OFF	FAST	2LP37
INCH	2LP14	UP	OFF	DOWN	2LP38
ON	2LP15	I	O	II	2LP39
OFF	2LP16	HSN CODE : 83100090			
RIGHT	2LP17	BLANK			
LEFT	2LP18	LEGEND		ORDERING CODE	
TRIP	2LP19	BLANK			2LP40
POWER ON	2LP20	HSN CODE : 83100090			
LOCAL	2LP21	EMERGENCY STOP			
REMOTE	2LP22	LEGEND		ORDERING CODE	
TEST	2LP23		Yellow colour 60mm Ø with Black Characters in plastic material		2LP41
RUN	2LP24				
R PHASE	2LP25				
Y PHASE	2LP26				
B PHASE	2LP27	HSN CODE : 85389000			

# TEKNIC



Control & Signaling Devices Ø22.5 Metal Series Joystick

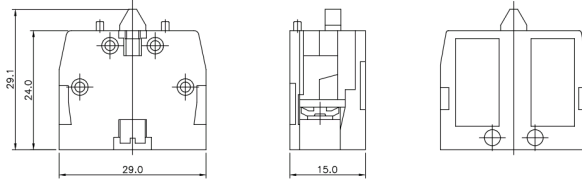




## General Characteristics:

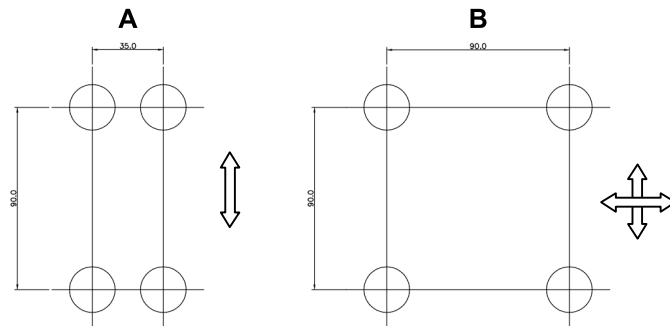
These are manually operated switches for installation in control panel & portable control equipment. They are used in steel, construction industry, machine tools, transport, conveyors, ware housing, studio, radio & cable control & cranes. They are used wherever motion sequences to actuation directions are controlled by hand. They are ideal for raising, lowering, moving to left or right. The switching elements are actuated by the joystick being moved out of intermediate position.

Note: The product is supplied as a single unit & not intended to be used without the special contact block/s attached to it. Product is factory fitted & warranty would be void if factory fitment is tampered. Standard contact elements (e.g. Model nos S1, S2... etc) cannot be used with this.



## Mechanical Characteristics

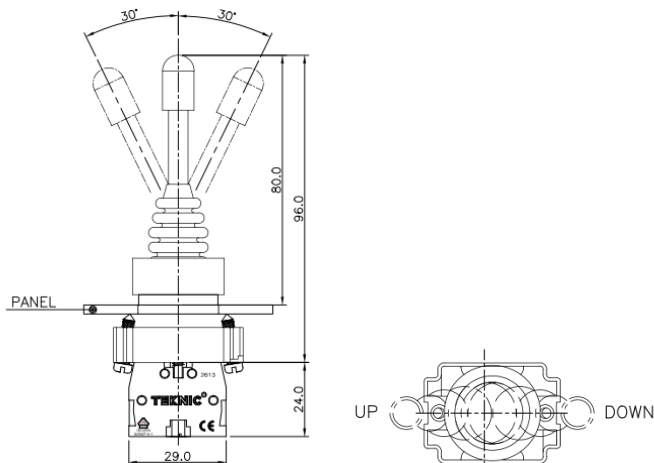
Terminal Capacity	: Maximum 2 X 1.5 mm <sup>2</sup> or 1 X 2.5 mm <sup>2</sup> : Minimum 1 X 0.5 mm <sup>2</sup>
Terminal marking	: 3 4
Terminal Torque	: 0.8 N.m
Operation	: Self-wiping, slow break
Mechanical life	: over 0.1 million operations
Ambient	: -25° C to +70° C
Storage	: -25° C to +40° C for 24 months stored in clean & dry surrounding
Mounting	: Can be mounted Vertical or Horizontal as required
	Fixing Centers 35 mm X 90 mm (2P/2PSR) A 90 mm X 90 mm (4P/4PSR) B



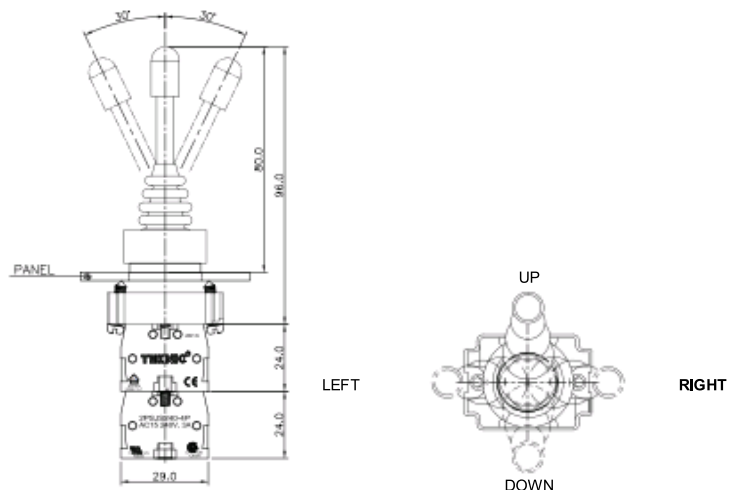
Mounting panel thickness: 1 mm to 6 mm  
: with 2 elements: 120 X 40 X 30  
: with 4 elements: 144 X 40 X 30

Overall Dimensions (LXBXH)

**2PSJSXY0-2P/2PSR**



**2PSJSXY0-4P/4PSR**

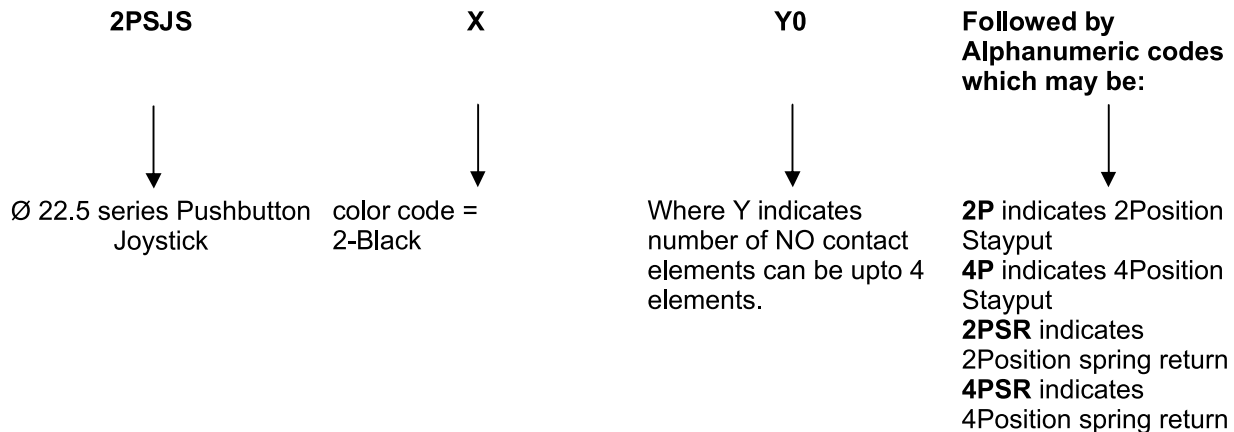


## Electrical Characteristics:

Make & Break Capacity	: AC 15 3A, 240 V AC DC 13 0.5A, 110 V DC with a time constant of 300 ms A600, Q600
Rated insulation voltage	: 500 V
Rated thermal current	: 10A
Short circuit protection	: 10A HRC cartridge fuse, rated for resistive loading
Dielectric Test	: 2.5 KV
Approvals regarding the material Polymeric parts	: UL-Recognized material

## Ordering codes for 2PSJSXY0-2P/4P/2PSR/4PSR

The ordering code for each product is mentioned on the product as well as the primary packing box.

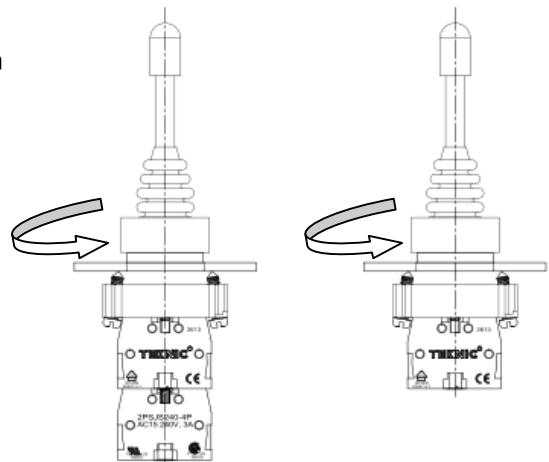


## Mounting Instructions

Safety regulations: This unit may be installed & commissioned by trained personnel who are familiar with current regulation for health & safety at work & accident prevention. Ensure local regulations are met especially those relating to safety. This is for use on flat surface, IP65 & type 4X, 12 enclosure. Ensure that this pushbutton switch will operate fully after installation. Failure to follow these will result in malfunctioning of the switch & may cause damage to equipment or accident

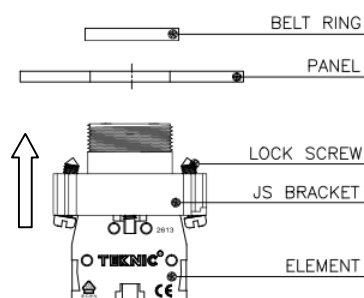
To install:

1. Open the top sub assembly by rotating it in anticlockwise direction

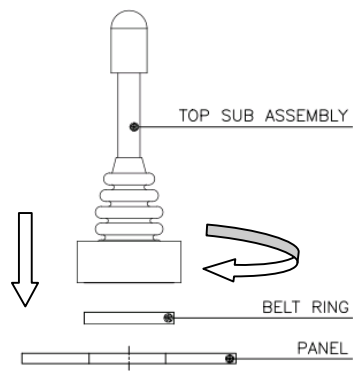


## Mounting Instructions (Contd.)

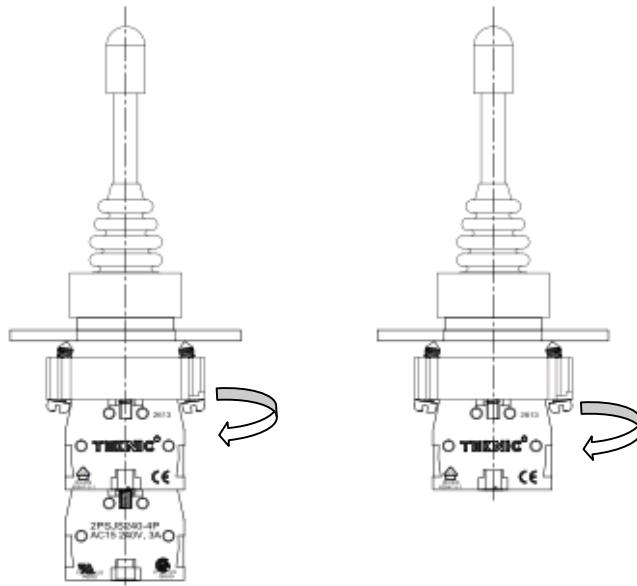
2. Insert the JS bracket with element assembly from back of the panel of Ø 22.5 cutout.



3. Ensure the belt ring is assembled from above the panel. **Fully tighten the top sub assembly by rotating clockwise**



4. Tighten the lock screws in clockwise direction with a torque of 1.2Nm (max)



5. Check to see if the handle operates in 2P/4P directions, as applicable.

To uninstall:

1. Open the lock screws fully by turning anticlockwise direction
2. Rotate the top sub assembly in anticlockwise direction & the sub assemblies separates out

