

Control and Signaling Devices Ø 22.5 Plastic Series

MRP with effect from 10.07.2024



## Control and Signaling devices Ø22.5 P Series

### Salient features

This range of Ø22.5 pushbuttons, selector switches, illuminated switches, illuminated selector switches and pilot lights have been designed to provide the following salient features:

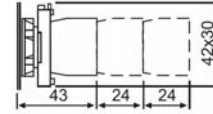
- Economy of space
- aesthetically elegant
- SELF WIPING CONTACT
- Robust in materials of construction
- Simple to fix - screw driver is all that required
- Safe in operation
- Very good flame resistance
- Fixing method unaffected by excessive vibration-Unit does not rotate
- Shrouded terminals
- Protection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

### 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

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 but in transformers suitable for operating at 230. 110 volts AC Input and 6V, 12V and 24V output.

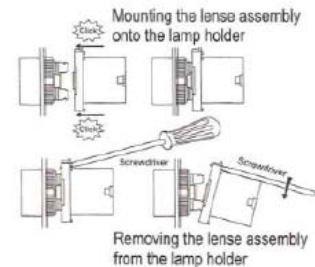
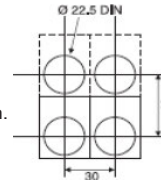
### Terminals

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

### Fixing

The P Series control devices Ø22.5 can be fixed in any position on panels of 1 to 5 mm thickness. We recommend minimum fixing centres of 30mm x 40 mm

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

Standard conformity	: CSA - C22.2 No. 14-95, UL508, IEC 947 • 5 (1) 1990, IS 13947
Approval	: 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 Position

#### Contact Block

Rated insulation voltage	: 500 V
Rated thermal current	: 10 A
Contact operation	: Self wiping, slow break NO or NC

#### Make and break capacity

As per IEC 947 - 5 • (1) 1990	: AC 15 4A, 415V AC														
	: DC13 0.5A 110V DC														
As per CSA - C22.2 No. 14-95, UL508	: A 600 Q600														
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 I 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)	: 50,000 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

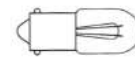
#### Legend plates

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

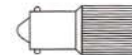
Filament bulb type BA9S, OAL 28mm  
Voltage : 6 12 24 30 48 60 130  
Watts : 1 2 2 2 2 2 2.6



#### LED bulb

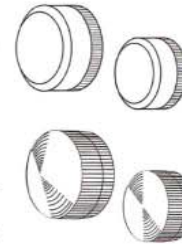
LED multichip bulb type BA9S, OAL 28mm

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



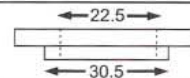
#### Lenses

Colour of lense	Translucent 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



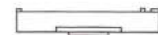
#### Adaptor for fixing Ø 22.5 devices in Ø 30.5 cutout.

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



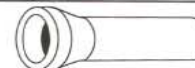
#### Boot for twin illuminated actuator

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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MOMENTARY ACTUATORS




	TYPE	COLOUR	ORDERING CODE	PRICE IN Rs.
	Flush	White	P2AF1	65.00
		Black	P2AF2	65.00
		Green	P2AF3	65.00
		Red	P2AF4	65.00
		Blue	P2AF6	65.00
		Yellow	P2AF8	65.00
	Projecting	White	P2AP1	65.00
		Black	P2AP2	65.00
		Green	P2AP3	65.00
		Red	P2AP4	65.00
		Blue	P2AP6	65.00
		Yellow	P2AP8	65.00
	Flush with arrow marking	White	P2AF1A	95.00
		Black	P2AF2A	95.00
	Flush Relay Reset	White	P2AF1RR	90.00
		Black	P2AF2RR	90.00
		Green	P2AF3RR	90.00
		Red	P2AF4RR	90.00
		Blue	P2AF6RR	90.00
		Yellow	P2AF8RR	90.00
	Booted	White	P2AF1BT7	140.00
		Black	P2AF2BT7	140.00
		Green	P2AF3BT7	140.00
		Red	P2AF4BT7	140.00
		Blue	P2AF6BT7	140.00
		Yellow	P2AF8BT7	140.00

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Control & Signalling Devices 22.5 Ø

PLASTIC SERIES

MUSHROOM HEAD ACTUATORS

	TYPE	COLOUR	ORDERING CODE	PRICE IN Rs.
	Latching Ø 30mm			
		Black	P2AMLS2	150.00
		Red	P2AMLS4	150.00
	Momentary Ø 40mm	Black	P2AM2	110.00
		Green	P2AM3	110.00
		Red	P2AM4	110.00
		Blue	P2AM6	110.00
		Yellow	P2AM8	110.00
	Push-Pull Ø 40mm	Black	P2AMPP2	150.00
		Red	P2AMPP4	150.00
	Latching Ø 40mm	Black	P2AML2	150.00
		Red	P2AML4	150.00
	Latching with Key Ø 40mm	Black	P2AMLKB2	295.00
		Red	P2AMLKB4	295.00

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PLASTIC SERIES

MUSHROOM HEAD ACTUATORS

	TYPE	COLOUR	ORDERING CODE	PRICE IN Rs.
	<b>Latching Trigger</b> <b>Ø 40mm</b>	Black	P2AMLT2	225.00
		Red	P2AMLT4	225.00
	<b>Latching Trigger with key</b> <b>Ø 40mm</b>	Black	P2AMLTKB2	365.00
		Red	P2AMLTKB4	365.00
	<b>Push-Pull Trigger with mechanical Indicator</b> <b>Ø 40 mm</b>	Red	P2AMPPT4	260.00
	<b>Latching</b> <b>Ø 60mm</b>	Black	P2AMLJ2	190.00
		Red	P2AMLJ4	190.00
	<b>Push-Pull</b> <b>Ø 60mm</b>	Black	P2AMPPJ2	190.00
		Red	P2AMPPJ4	190.00
	<b>Momentary</b> <b>Ø 60mm</b>	Black	P2AMJ2	150.00
		Green	P2AMJ3	150.00
		Red	P2AMJ4	150.00
		Blue	P2AMJ6	150.00
		Yellow	P2AMJ8	150.00


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PLASTIC SERIES					
SELECTOR ACTUATORS					
	TYPE		COLOUR	ORDERING CODE	PRICE IN Rs.
	2 position LATCHING		Black	P2AS2-2P	202.00
	With ext. knob			P2AS2E-2P	202.00
	MOMENTARY			P2AS2-2PSR	202.00
	With ext. knob			P2AS2E-2PSR	202.00
	3 position STAY PUT		Black	P2AS2-3P	202.00
	With ext. knob			P2AS2E-3P	202.00
	MOMENTARY on both sides			P2AS2-3PSR	221.00
	With ext. knob			P2AS2E-3PSR	221.00
	MOMENTARY on right			P2AS2-3PSRR	221.00
	With ext. knob			P2AS2E-3PSRR	221.00
	MOMENTARY on left			P2AS2-3PSRL	221.00
	With ext. knob			P2AS2E-3PSRL	221.00



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PLASTIC SERIES						
KEY SELECTOR ACTUATORS						
	TYPE		COLOUR	ORDERING CODE	PRICE IN Rs.	
	2 POSITION Stayput			Black	P2AK2-2PB	285.00
					P2AK2-2PO	285.00
					P2AK2-2PI	285.00
		Spring Return			P2AK2-2POSR	285.00
	3 POSITION Stayput			Black	P2AK2-3PA	300.00
					P2AK2-3PO	300.00
					P2AK2-3PB	300.00
					P2AK2-3PC	300.00
		Spring Return			P2AK2-3PSR	300.00
		Right to Centre			P2AK2-3PSRR	300.00
		Left to Centre			P2AK2-3PSRL	300.00
	* X stands for position in which key is removable					



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PLASTIC SERIES				
TWIN ACTUATORS				
	TYPE	COLOUR	ORDERING CODE	PRICE IN Rs.
	Double Flush w/o IO Mark	Green	P2ATF3F4	135.00
		Red		
		Yellow	P2ATF8F2	135.00
		Black		
	Double Flush with IO Mark	Green	P2ATF3F4(IO)	135.00
		Red		
		Yellow	P2ATF8F2(IO)	135.00
		Black		
	1 Flush 1 Projecting w/o IO Mark	Green	P2ATF3P4	135.00
		Red		
		Yellow	P2ATF8P2	135.00
		Black		
	1 Flush 1 Projecting with IO Mark	Green	P2ATF3P4(IO)	135.00
		Red		
		Yellow	P2ATF8P2(IO)	135.00
		Black		











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






PLASTIC SERIES					
ILLUMINATED ACTUATORS WITH INTEGRAL LED / LED BULB					
	TYPE	COLOUR	ORDERING CODE	PRICE IN Rs. INTEGRAL LED	PRICE IN Rs. WITH LED BULB
	<b>Illuminated Flush actuator, Momentary</b>				
	<b>Integral LED</b> 6V, 12V, 24V, 48V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	White LED / White Lens	P2ALRF1L(S)	385.00	
		Green LED / Green Lens	P2ALRF3L	245.00	
		Red LED / Red Lens	P2ALRF4L	245.00	
		Amber LED / Amber Lens	P2ALRF5L	245.00	
		Blue LED / Blue Lens	P2ALRF6L	500.00	
		White LED / Clear Lens	P2ALRF7L(S)	385.00	
	Yellow LED / Yellow Lens	P2ALRF8L	245.00		
<b>Integral LED</b>	Please mention the voltage required after the ordering code				
	<b>LED Bulb, BA9S type</b> 24V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	White LED Bulb / White Lens	P2ALF1LB(S)		475.00
		Green LED Bulb / Green Lens	P2ALF3LB		255.00
		Red LED Bulb / Red Lens	P2ALF4LB		255.00
		Amber LED Bulb / Amber Lens	P2ALF5LB		255.00
		Blue LED Bulb / Blue Lens	P2ALF6LB		500.00
		White LED Bulb / Clear Lens	P2ALF7LB(S)		475.00
		Yellow LED Bulb / Yellow Lens	P2ALF8LB		255.00
<b>LED Bulb</b>	Please mention the voltage required after the ordering code				
	<b>Illuminated Projecting Actuator, Momentary</b>				
	<b>Integral LED</b> 6V, 12V, 24V, 48V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	White LED / White Lens	P2ALRP1L(S)	385.00	
		Green LED / Green Lens	P2ALRP3L	245.00	
		Red LED / Red Lens	P2ALRP4L	245.00	
		Amber LED / Amber Lens	P2ALRP5L	245.00	
		Blue LED / Blue Lens	P2ALRP6L	500.00	
		White LED / Clear Lens	P2ALRP7L(S)	385.00	
	Yellow LED / Yellow Lens	P2ALRP8L	245.00		
<b>Integral LED</b>	Please mention the voltage required after the ordering code				
	<b>LED Bulb, BA9S type</b> 24V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	White LED Bulb / White Lens	P2ALP1LB(S)		475.00
		Green LED Bulb / Green Lens	P2ALP3LB		255.00
		Red LED Bulb / Red Lens	P2ALP4LB		255.00
		Amber LED Bulb / Amber Lens	P2ALP5LB		255.00
		Blue LED Bulb / Blue Lens	P2ALP6LB		500.00
		White LED Bulb / Clear Lens	P2ALP7LB(S)		475.00
		Yellow LED Bulb / Yellow Lens	P2ALP8LB		255.00
<b>LED Bulb</b>	Please mention the voltage required after the ordering code				

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PLASTIC SERIES					
ILLUMINATED SELECTOR ACTUATOR WITH LED					
	TYPE	COLOUR	ORDERING CODE	PRICE IN Rs. INTEGRAL LED	PRICE IN Rs. WITH LED BULB
	<b>2 Position Stayput</b>				
	<b>Integral LED</b> 6V, 12V, 24V, 48V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC 	White LED / White Lens	P2ASLR1L(S)-2P	540.00	
		Green LED / Green Lens	P2ASLR3L-2P	400.00	
		Red LED / Red Lens	P2ASLR4L-2P	400.00	
		Amber LED / Amber Lens	P2ASLR5L-2P	400.00	
		Blue LED / Blue Lens	P2ASLR6L-2P	645.00	
		White LED / Clear Lens	P2ASLR7L(S)-2P	540.00	
		Yellow LED / Yellow Lens	P2ASLR8L-2P	400.00	
<b>Integral LED</b>	Please mention the voltage required after the ordering code				
	<b>LED Bulb, BA9S type</b>				
	24V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC 	White LED Bulb / White Lens	P2ASL1LB(S)-2P		645.00
		Green LED Bulb / Green Lens	P2ASL3LB-2P		410.00
		Red LED Bulb / Red Lens	P2ASL4LB-2P		410.00
		Amber LED Bulb / Amber Lens	P2ASL5LB-2P		410.00
		Blue LED Bulb / Blue Lens	P2ASL6LB-2P		675.00
		White LED Bulb / Clear Lens	P2ASL7LB(S)-2P		645.00
		Yellow LED Bulb / Yellow Lens	P2ASL8LB-2P		410.00
<b>LED Bulb</b>	Please mention the voltage required after the ordering code				
	<b>2 Position Momentary</b>				
	<b>Integral LED</b> 6V, 12V, 24V, 48V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC 	White LED / White Lens	P2ASLR1L(S)-2PSR	540.00	
		Green LED / Green Lens	P2ASLR3L-2PSR	400.00	
		Red LED / Red Lens	P2ASLR4L-2PSR	400.00	
		Amber LED / Amber Lens	P2ASLR5L-2PSR	400.00	
		Blue LED / Blue Lens	P2ASLR6L-2PSR	645.00	
		White LED / Clear Lens	P2ASLR7L(S)-2PSR	540.00	
		Yellow LED / Yellow Lens	P2ASLR8L-2PSR	400.00	
<b>Integral LED</b>	Please mention the voltage required after the ordering code				
	<b>LED Bulb, BA9S type</b>				
	24V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC 	White LED Bulb / White Lens	P2ASL1LB(S)-2PSR		645.00
		Green LED Bulb / Green Lens	P2ASL3LB-2PSR		410.00
		Red LED Bulb / Red Lens	P2ASL4LB-2PSR		410.00
		Amber LED Bulb / Amber Lens	P2ASL5LB-2PSR		410.00
		Blue LED Bulb / Blue Lens	P2ASL6LB-2PSR		675.00
		White LED Bulb / Clear Lens	P2ASL7LB(S)-2PSR		645.00
		Yellow LED Bulb / Yellow Lens	P2ASL8LB-2PSR		410.00
<b>LED Bulb</b>	Please mention the voltage required after the ordering code				





PLASTIC SERIES

ILLUMINATED SELECTOR WITH LED/LED BULB

	TYPE	COLOUR	ORDERING CODE	PRICE IN Rs. INTEGRAL LED	PRICE IN Rs. WITH LED BULB		
	<b>3 Position Illuminated Selector Actuator</b>						
	<b>Stayput</b>	White LED / White Lens	P2ASLR1L(S)-3P	560.00			
	<b>Integral LED</b>	Green LED / Green Lens	P2ASLR3L-3P	420.00			
	6V, 12V, 24V, 48V AC/DC	Red LED / Red Lens	P2ASLR4L-3P	420.00			
	110VAC, 110VDC,	Amber LED / Amber Lens	P2ASLR5L-3P	420.00			
	230VAC, 220VDC	Blue LED / Blue Lens	P2ASLR6L-3P	665.00			
		White LED / Clear Lens	P2ASLR7L(S)-3P	560.00			
		Yellow LED / Yellow Lens	P2ASLR8L-3P	420.00			
	Please mention the voltage required after the ordering code						
	<b>Momentary</b>	White LED / White Lens	P2ASLR1L(S)-3PSR	565.00			
	<b>Integral LED</b>	Green LED / Green Lens	P2ASLR3L-3PSR	435.00			
	6V, 12V, 24V, 48V AC/DC	Red LED / Red Lens	P2ASLR4L-3PSR	435.00			
	110VAC, 110VDC,	Amber LED / Amber Lens	P2ASLR5L-3PSR	435.00			
	230VAC, 220VDC	Blue LED / Blue Lens	P2ASLR6L-3PSR	670.00			
		White LED / Clear Lens	P2ASLR7L(S)-3PSR	565.00			
		Yellow LED / Yellow Lens	P2ASLR8L-3PSR	435.00			
	Please mention the voltage required after the ordering code						
	<b>Stayput / Momentary</b>	White LED / White Lens	P2ASLR1L(S)-3PSRL	565.00			
	<b>Integral LED</b>	Green LED / Green Lens	P2ASLR3L-3PSRL	435.00			
	6V, 12V, 24V, 48V AC/DC	Red LED / Red Lens	P2ASLR4L-3PSRL	435.00			
	110VAC, 110VDC,	Amber LED / Amber Lens	P2ASLR5L-3PSRL	435.00			
	230VAC, 220VDC	Blue LED / Blue Lens	P2ASLR6L-3PSRL	670.00			
		White LED / Clear Lens	P2ASLR7L(S)-3PSRL	565.00			
		Yellow LED / Yellow Lens	P2ASLR8L-3PSRL	435.00			
	Please mention the voltage required after the ordering code						
	<b>Stayput / Momentary</b>	White LED / White Lens	P2ASLR1L(S)-3PSRR	565.00			
	<b>Integral LED</b>	Green LED / Green Lens	P2ASLR3L-3PSRR	435.00			
	6V, 12V, 24V, 48V AC/DC	Red LED / Red Lens	P2ASLR4L-3PSRR	435.00			
	110VAC, 110VDC,	Amber LED / Amber Lens	P2ASLR5L-3PSRR	435.00			
	230VAC, 220VDC	Blue LED / Blue Lens	P2ASLR6L-3PSRR	670.00			
		White LED / Clear Lens	P2ASLR7L(S)-3PSRR	565.00			
		Yellow LED / Yellow Lens	P2ASLR8L-3PSRR	435.00			
	<b>Integral LED</b>	Please mention the voltage required after the ordering code					
		<b>Stayput</b>	White LED Bulb / White Lens	P2ASL1LB(S)-3P		665.00	
		<b>LED Bulb, BA9S type</b>	Green LED Bulb / Green Lens	P2ASL3LB-3P		435.00	
		24V AC/DC,	Red LED Bulb / Red Lens	P2ASL4LB-3P		435.00	
		110VAC, 110VDC	Amber LED Bulb / Amber Lens	P2ASL5LB-3P		435.00	
		230VAC, 220VDC	Blue LED Bulb / Blue Lens	P2ASL6LB-3P		690.00	
			White LED Bulb / Clear Lens	P2ASL7LB(S)-3P		665.00	
			Yellow LED Bulb / Yellow Lens	P2ASL8LB-3P		435.00	
		Please mention the voltage required after the ordering code					
		<b>Momentary</b>	White LED Bulb / White Lens	P2ASL1LB(S)-3PSR		675.00	
		<b>LED Bulb, BA9S type</b>	Green LED Bulb / Green Lens	P2ASL3LB-3PSR		440.00	
		24V AC/DC,	Red LED Bulb / Red Lens	P2ASL4LB-3PSR		440.00	
		110VAC, 110VDC	Amber LED Bulb / Amber Lens	P2ASL5LB-3PSR		440.00	
230VAC, 220VDC		Blue LED Bulb / Blue Lens	P2ASL6LB-3PSR		700.00		
		White LED Bulb / Clear Lens	P2ASL7LB(S)-3PSR		675.00		
		Yellow LED Bulb / Yellow Lens	P2ASL8LB-3PSR		440.00		
Please mention the voltage required after the ordering code							
<b>Stayput / Momentary</b>		White LED Bulb / White Lens	P2ASL1LB(S)-3PSRL		675.00		
<b>LED Bulb, BA9S type</b>		Green LED Bulb / Green Lens	P2ASL3LB-3PSRL		440.00		
24V AC/DC,		Red LED Bulb / Red Lens	P2ASL4LB-3PSRL		440.00		
110VAC, 110VDC		Amber LED Bulb / Amber Lens	P2ASL5LB-3PSRL		440.00		
230VAC, 220VDC		Blue LED Bulb / Blue Lens	P2ASL6LB-3PSRL		700.00		
		White LED Bulb / Clear Lens	P2ASL7LB(S)-3PSRL		675.00		
		Yellow LED Bulb / Yellow Lens	P2ASL8LB-3PSRL		440.00		
Please mention the voltage required after the ordering code							
<b>Stayput / Momentary</b>		White LED Bulb / White Lens	P2ASL1LB(S)-3PSRR		675.00		
<b>LED Bulb, BA9S type</b>		Green LED Bulb / Green Lens	P2ASL3LB-3PSRR		440.00		
24V AC/DC,		Red LED Bulb / Red Lens	P2ASL4LB-3PSRR		440.00		
110VAC, 110VDC		Amber LED Bulb / Amber Lens	P2ASL5LB-3PSRR		440.00		
230VAC, 220VDC		Blue LED Bulb / Blue Lens	P2ASL6LB-3PSRR		700.00		
		White LED Bulb / Clear Lens	P2ASL7LB(S)-3PSRR		675.00		
		Yellow LED Bulb / Yellow Lens	P2ASL8LB-3PSRR		440.00		
<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**



<b>TWIN ILLUMINATED ACTUATORS WITH LED</b>					
	<b>TYPE</b>	<b>COLOUR</b>	<b>ORDERING CODE</b>	<b>PRICE IN Rs. INTEGRAL LED</b>	<b>PRICE IN Rs. WITH LED BULB</b>
	<b>Twin Illuminated 1 Flush, 1 Projecting, (IO) Mark</b>				
	<b>Integral LED</b> 6V, 12V, 24V, 48V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	Green	P2ATLR5LF3P4 (IO)	320.00	
		Red			
		Amber lens			
<b>Integral LED</b>	Please mention the voltage required after the ordering code				
	<b>LED Bulb,BA9S type</b> 24V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	Green	P2ATL5LBF3P4 (IO)		340.00
		Red			
		Amber lens			
	<b>LED Bulb</b>	Please mention the voltage required after the ordering code			
	<b>Twin Illuminated Double Flush, (IO) Mark</b>				
	<b>Integral LED</b> 6V, 12V, 24V, 48V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	Green	P2ATLR5LF3F4 (IO)	320.00	
		Red			
		Amber lens			
<b>Integral LED</b>	Please mention the voltage required after the ordering code				
	<b>LED Bulb,BA9S type</b> 24V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	Green	P2ATL5LBF3F4 (IO)		340.00
		Red			
		Amber lens			
	<b>LED Bulb</b>	Please mention the voltage required after the ordering code			

PLASTIC SERIES				
PILOT LIGHTS				
	TYPE	COLOUR	ORDERING CODE	PRICE IN Rs. INTEGRAL LED
	<b>Integral LED</b> 6V, 12V, 24V, 48V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	<b>Pilot Light with Integral LED</b>		
		White LED / White Lens	P2PLBR1L(S)	375.00
		Green LED / Green Lens	P2PLBR3L	210.00
		Red LED / Red Lens	P2PLBR4L	210.00
		Amber LED / Amber Lens	P2PLBR5L	210.00
		Blue LED / Blue Lens	P2PLBR6L	515.00
		White LED / Clear Lens	P2PLBR7L(S)	375.00
		Yellow LED / Yellow Lens	P2PLBR8L	210.00
<b>Integral LED</b>	Please mention the voltage required after the ordering code			
	<b>Integral LED, Flasher 24V,</b> 110V, 230V AC	White LED Bulb / White Lens	P2PLBR1LF(S)	375.00
		Green LED Bulb / Green Lens	P2PLBR3LF	210.00
		Red LED Bulb / Red Lens	P2PLBR4LF	210.00
		Amber LED Bulb / Amber Lens	P2PLBR5LF	210.00
		Blue LED Bulb / Blue Lens	P2PLBR6LF	515.00
		White LED Bulb / Clear Lens	P2PLBR7LF(S)	375.00
		Yellow LED Bulb / Yellow Lens	P2PLBR8LF	210.00
		<b>Integral LED</b>	Please mention the voltage required after the ordering code	
	<b>Integral LED, Universal</b> 24V upto 240V AC / DC	White LED / White Lens	P2PLBR1LU(S)	530.00
		Green LED / Green Lens	P2PLBR3LU	375.00
		Red LED / Red Lens	P2PLBR4LU	375.00
		Amber LED / Amber Lens	P2PLBR5LU	375.00
		Blue LED / Blue Lens	P2PLBR6LU	635.00
		White LED / Clear Lens	P2PLBR7LU(S)	530.00
		Yellow LED / Yellow Lens	P2PLBR8LU	375.00
		<b>Integral LED, Universal</b>	Please mention the voltage required after the ordering code	
	<b>Integral LED</b> 415VAC	White LED / White Lens	P2PLBR1L(S)	440.00
		Green LED / Green Lens	P2PLBR3L	260.00
		Red LED / Red Lens	P2PLBR4L	260.00
		Amber LED / Amber Lens	P2PLBR5L	260.00
		Blue LED / Blue Lens	P2PLBR6L	565.00
		White LED / Clear Lens	P2PLBR7L(S)	440.00
		Yellow LED / Yellow Lens	P2PLBR8L	260.00
		<b>Integral LED, 415VAC</b>	Please mention the voltage required after the ordering code	
	<b>Integral LED, Test Lamp</b> 24V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	White LED / White Lens	P2PLBR1L(S)**TL	525.00
		Green LED / Green Lens	P2PLBR3L**TL	315.00
		Red LED / Red Lens	P2PLBR4L**TL	315.00
		Amber LED / Amber Lens	P2PLBR5L**TL	315.00
		Blue LED / Blue Lens	P2PLBR6L**TL	665.00
		White LED / Clear Lens	P2PLBR7L(S)**TL	525.00
		Yellow LED / Yellow Lens	P2PLBR8L**TL	315.00
		<b>Integral LED, Test Lamp</b>	** Please mention the voltage required after the ordering code	




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Control & Signalling Devices 22.5 Ø

PLASTIC SERIES					
PILOT LIGHTS					
	TYPE	COLOUR	ORDERING CODE	PRICE IN Rs. WITH LED BULB	
	<b>Pilot Light with LED Bulb</b>				
	<b>LED Bulb, BA9S type</b> 24V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	White LED Bulb / White Lens	P2PLB1LB(S)	435.00	
		Green LED Bulb / Green Lens	P2PLB3LB	220.00	
		Red LED Bulb / Red Lens	P2PLB4LB	220.00	
		Amber LED Bulb / Amber Lens	P2PLB5LB	220.00	
		Blue LED Bulb / Blue Lens	P2PLB6LB	465.00	
		White LED Bulb / Clear Lens	P2PLB7LB(S)	435.00	
		Yellow LED Bulb / Yellow Lens	P2PLB8LB	220.00	
<b>LED Bulb</b>	Please mention the voltage required after the ordering code				
	<b>LED Bulb</b>				
	<b>Pri. Volt.</b>	<b>Sec Volt.</b>	White LED Bulb / White Lens	P2PLBT1LB(S) XXX / YY	730.00
	110VAC	06	Green LED Bulb / Green Lens	P2PLBT3LB XXX / YY	520.00
	110VAC	12	Red LED Bulb / Red Lens	P2PLBT4LB XXX / YY	520.00
	110VAC	24	Amber LED Bulb / Amber Lens	P2PLBT5LB XXX / YY	520.00
	<b>Pri. Volt.</b>	<b>Sec Volt.</b>	Blue LED Bulb / Blue Lens	P2PLBT6LB XXX / YY	760.00
	240VAC	06	White LED Bulb / Clear Lens	P2PLBT7LB(S) XXX / YY	730.00
	240VAC	12	Yellow LED Bulb / Yellow Lens	P2PLBT8LB XXX / YY	520.00
	240VAC	24			
	<b>Connection with Transformer</b>	<b>XXX - Primary Voltage</b>			
<b>YY - Secondary Voltage</b>					

Control & Signalling Devices 22.5 Ø

PLASTIC SERIES				
LED PILOT LIGHTS ECONOMY SERIES				
	TYPE	COLOUR	ORDERING CODE	PRICE IN Rs. WITH LED BULB
	<b>Integral LED</b> 6V, 12V, 24V, 48V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	White LED / White Lens	3PLBR1L(S)	335.00
		Green LED / Green Lens	3PLBR3L	165.00
		Red LED / Red Lens	3PLBR4L	165.00
		Amber LED / Amber Lens	3PLBR5L	165.00
		Blue LED / Blue Lens	3PLBR6L	460.00
		White LED / Clear Lens	3PLBR7L(S)	335.00
		Yellow LED / Yellow Lens	3PLBR8L	165.00
		Please mention the voltage required after the ordering code		
	<b>Integral LED,</b> 24V upto 240V AC / DC	White LED / White Lens	3PLBR1LU(S)	430.00
		Green LED / Green Lens	3PLBR3LU	275.00
		Red LED / Red Lens	3PLBR4LU	275.00
		Amber LED / Amber Lens	3PLBR5LU	275.00
		Blue LED / Blue Lens	3PLBR6LU	570.00
		White LED / Clear Lens	3PLBR7LU(S)	430.00
		Yellow LED / Yellow Lens	3PLBR8LU	275.00
Please mention the voltage required after the ordering code				
	<b>Integral LED, Dual colour</b>			
	24VAC	Green LED	3PLBR34L	280.00
	110VAC	Red LED		
	230VAC	White Lens		
Please mention the voltage required after the ordering code				
	<b>Integral LED with Buzzer</b>			
	12VAC/DC	Red LED	3PLBR4LBZ	295.00
	24VAC/DC			
	110VAC			
	230VAC			
Please mention the voltage required after the ordering code				
	<b>Integral LED with Test Lamp</b>			
	12VAC/DC	Red LED	3PLBR4LTL	260.00
	24VAC/DC			
	110VAC			
	230VAC			
	Please mention the voltage required after the ordering code			



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Control & Signalling Devices 22.5 Ø

PLASTIC SERIES

CONTACT ELEMENTS

	TYPE	ORDERING CODE	PRICE IN Rs.
	<b>PANEL MOUNTING</b>		
	NORMALLY OPEN (NO) SILVER CONTACT	S1	80.00
	NORMALLY OPEN (NO) SILVER CONTACT (BREAK BEFORE MAKE)	S1S	80.00
	NORMALLY OPEN (NO) SILVER CONTACT (MAKE BEFORE BREAK)	S1E	80.00
	NORMALLY CLOSED (NC) SILVER CONTACT	S2	80.00
	NORMALLY OPEN (NO) GOLD CONTACT	S3	215.00
	NORMALLY CLOSED (NC) GOLD CONTACT	S4	215.00
	<b>BASE MOUNTING</b>		
	NORMALLY OPEN (NO) SILVER CONTACT	S5	80.00
	NORMALLY CLOSED (NC) SILVER CONTACT	S6	80.00
	NORMALLY OPEN (NO) GOLD CONTACT	S7	215.00
	NORMALLY CLOSED (NC) GOLD CONTACT	S8	215.00

## 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 Key Actuator (3 Pos), key removable in left & right positions	P2AK2-2PB		1NO	P2PSK210-2PB	
	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 Projecting Illuminated Pushbutton with integral LED for 230V AC	P2ALRF3L24DC	Green	1NO+1NC	P2PSLRF3L1124DC	
	P2ALRP4L230AC	Red	1NO+1NC	P2PSLRP4L11230AC	
Twin Luminous Pushbutton marked "I O" Flush - Flush direct connection (130V)	P2ATL3-F2 -F4 IO130	Lense-Green	1 NO + 1 NC	P2PSTL3F211-F401-IO130	
		Flush-Black			
Twin Luminous Pushbutton not marked Flush - Projecting with resistance and (230AC)	P2ATLR5-F3 -P4230	Lense-Amber	1 NO 1 NC	P2PSTLR5F310-P401 230	
		Flush-Green			
Pilot Light for direct connection upto 130V	P2PLLA3	Green	2LHB130	P2PLB3130	
	P2PLLA4	Red	2LHB130	P2PLB4130	
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	



#### GENERAL TERMS AND CONDITIONS

General Terms : Prices are ex-works Mumbai  
HSN CODE : 85365010 for all the products of this MRP List  
GST : 18%

Prices are subject to revision without notice and ruling at the time of delivery.

This price list supersedes all previous Price Lists.

Warranty Policy : TEKNIC equipment is guaranteed under the following terms:

For a period of 12 months from the date of sale, TEKNIC guarantees that its products are free from defects in material and workmanship, with the exception of consumables rendered unserviceable through normal use. During the said period, TEKNIC will replace or repair all parts acknowledged as defective due to factory workmanship and which have been returned in a timely manner by Buyer to TEKNIC and all costs and duties paid, together with a detailed description of the failure and a certified declaration of the number of hours of operation. Repaired or replaced parts will be redelivered FCA (named place) as per INCOTERMS 2000. This warranty is subject to the provision of correct usage, proper maintenance and does not cover defects arising out of fire, faulty operation, accident, inefficient maintenance and willful or accidental damage.

TEKNIC guarantee applies to all equipment, parts and components stored, installed, protected, maintained and used in accordance with TEKNIC specifications and instructions, and respecting the rules for normal use, without any modification by Buyer.

All other conditions or warranties, whether express or implied, relating to the quality and operation of the equipment are excluded, as well as any liability for loss or damage caused directly or indirectly by the equipment or resulting from its use.

Proof of purchase to be provided to avail warranty.

#### TEKNIC ELECTRIC (I) PVT. LTD.

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