

# TEKNIC



Control and Signaling Devices Ø 22.5 Metal Series

MRP with effect from 10.07.2024





# Control and Signaling devices Ø22.5

## 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 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 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.

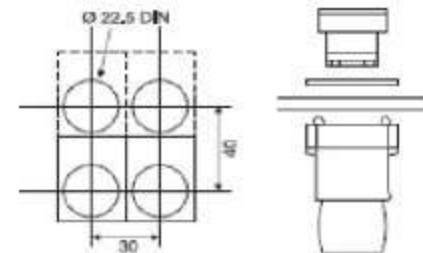
## Terminals

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

## Fixing arrangement

## Fixing

The control devices Ø22.5 can be fixed in any position on panels of 1 to 6 mm thick ness. 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 lenses 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, lightened 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.



## Electrical and mechanical characteristics

### Environment

- Standard conformity Approval : CSA - C22.2 No. 14-95, UL508, IEC 947 • 5 (1) 1990, IS 13947
- : 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 ruse HRC type, rated for resistive loading
- Mechanical life : Over 1 million operations
- Electric rating : Over 1 million operations
- (For 1 million operation cycles, operation at 3600 cycles per hour, load factor 0.5) : AC 15 ————— V 24 120 230 DC 13 ————— V 24 110
- : A 5 4 3 A 0.5 0.2

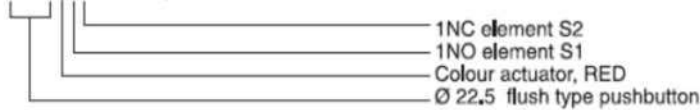
## Modules for pilot light & illuminated switches with integral LED I multichip LED bulb (BA9S cap)

- 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

### Ordering instructions

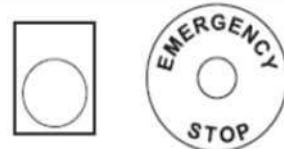
- Actuators, illuminated actuators, contact elements, lense assemblies & pilot lights can all be ordered separately or in combination.
- The type numbers of contact elements are : NO: Actuator mounting : S1, S3 Note:  
Individual mounting : S5, S7 S3, S4, S7, S8 are gold plated contacts  
NC: Actuator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

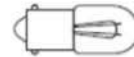
Legend plates 30 x 40 mm are supplied with the following standard texts:  
START FORWARD UP OPEN AUTO SLOW RESET ON RIGHT TRIP  
STOP REVERSE DOWN CLOSE HAND FAST INCH OFF LEFT POWER ON  
Legend plate Ø 60 mm yellow with black characters for **EMERGENCY STOP**



#### Filament bulb

Filament bulb type BA9S, OAL 28mm

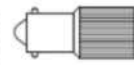
Voltage	: 6	12	24	30	48	60	130
Watts	: 1	2	2	2	2	2	2,6



#### 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)

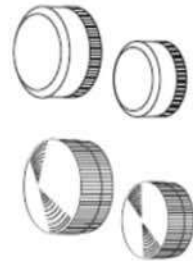
2LAL1 2LAL3 2LAL4 2LAL5 2LAL6 2LAL7 2LAL8

For pilot lights with LED

2PLL1L 2PLL3L 2PLL4L 2PLL5L 2PLL6L 2PLL7L 2PLL8L

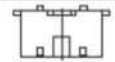
For illuminated actuators with LED (flush/projecting)

2LAL1L 2LAL3L 2LAL4L 2LAL5L 2LAL6L 2LAL7L 2LAL8L



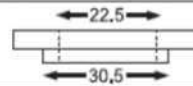
#### Push Push mechanism for converting spring return actuator into stay put type

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

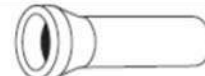
Colour of Boot : Clear

Type No : 2ATLBT7



#### Bulb extractor

Type No. : 2BA9SE



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

Type No. : 2BP2





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**METALLIC SERIES**

**MOMENTARY ACTUATORS**





	TYPE	COLOUR	ORDERING CODE	PRICE IN Rs.
	Flush	White	2AF1	85.00
		Black	2AF2	85.00
		Green	2AF3	85.00
		Red	2AF4	85.00
		Blue	2AF6	85.00
		Yellow	2AF8	85.00
	Flush with arrow marking	White	2AF1A	110.00
		Black	2AF2A	110.00
	Projecting	White	2AP1	85.00
		Black	2AP2	85.00
		Green	2AP3	85.00
		Red	2AP4	85.00
		Blue	2AP6	85.00
		Yellow	2AP8	85.00
	Flush Relay Reset	White	2AF1RR	115.00
		Black	2AF2RR	115.00
		Green	2AF3RR	115.00
		Red	2AF4RR	115.00
		Blue	2AF6RR	115.00
		Yellow	2AF8RR	115.00
	Recess head	White	2AF1RH	140.00
		Black	2AF2RH	140.00
		Green	2AF3RH	140.00
		Red	2AF4RH	140.00
		Blue	2AF6RH	140.00
		Yellow	2AF8RH	140.00
	Booted	Black	2AB2	160.00
		Green	2AB3	160.00
		Red	2AB4	160.00
		Blue	2AB6	160.00
		Yellow	2AB8	160.00

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METALLIC SERIES



MUSHROOM ACTUATORS

	TYPE	COLOUR	ORDERING CODE	PRICE IN Rs.
	<b>Latching</b> <b>Ø 30mm</b>			
		Black	2AMLS2	185.00
		Red	2AMLS4	185.00
	<b>Momentary</b> <b>Ø 40mm</b>	Black	2AM2	130.00
		Green	2AM3	130.00
		Red	2AM4	130.00
		Blue	2AM6	130.00
		Yellow	2AM8	130.00
	<b>Latching</b> <b>Ø 40mm</b>			
		Black	2AML2	185.00
		Red	2AML4	185.00
	<b>Push-Pull</b> <b>Ø 40mm</b>			
		Black	2AMPP2	185.00
		Red	2AMPP4	185.00

**Control & Signalling Devices 22.5 Ø**

**METALLIC SERIES**

**MUSHROOM ACTUATORS**

	TYPE	COLOUR	ORDERING CODE	PRICE IN Rs.
	<b>Latching with Key</b> <b>Ø 40mm</b>			
		Black	2AMLKB2	370.00
		Red	2AMLKB4	370.00
	<b>Latching</b> <b>Ø 60mm</b>			
		Black	2AMLJ2	250.00
		Red	2AMLJ4	250.00
	<b>Push-Pull</b> <b>Ø 60mm</b>			
		Black	2AMPPJ2	250.00
		Red	2AMPPJ4	250.00
	<b>Momentary</b> <b>Ø 60mm</b>			
		Black	2AMJ2	185.00
		Green	2AMJ3	185.00
		Red	2AMJ4	185.00
		Blue	2AMJ6	185.00
	Yellow	2AMJ8	185.00	











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**METALLIC SERIES**

**SELECTOR ACTUATORS**

	TYPE		COLOUR	ORDERING CODE	PRICE IN Rs.
	2 position LATCHING		Black	2AS2-2P	255.00
	With ext. knob			2AS2E-2P	255.00
	MOMENTARY			2AS2-2PSR	255.00
	With ext. knob			2AS2E-2PSR	255.00
	3 position STAY PUT		Black	2AS2-3P	255.00
	With ext. knob			2AS2E-3P	255.00
	MOMENTARY on both sides			2AS2-3PSR	275.00
	With ext. knob			2AS2E-3PSR	275.00
	MOMENTARY on right			2AS2-3PSRR	275.00
	With ext. knob			2AS2E-3PSRR	275.00
	MOMENTARY on left			2AS2-3PSRL	275.00
	With ext. knob			2AS2E-3PSRL	275.00








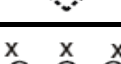






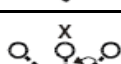
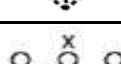
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METALLIC SERIES

KEY SELECTOR ACTUATORS



	TYPE		COLOUR	ORDERING CODE	PRICE IN Rs.
	2 POSITION Stayput		Black	2AK2-2PB	350.00
				2AK2-2PO	350.00
				2AK2-2PI	350.00
				2AK2-2POS	350.00
	Spring Return			2AK2-2POSR	350.00
	3 POSITION Stayput		Black	2AK2-3PA	375.00
				2AK2-3PO	375.00
				2AK2-3POSR	375.00
				2AK2-3PB	375.00
				2AK2-3PC	375.00
				2AK2-3PSR	375.00
				2AK2-3PSRR	375.00
	Left to Centre			2AK2-3PSRL	375.00

\* X stands for position in which key is removable







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**METALLIC SERIES**

**TWIN ACTUATORS**

	TYPE	COLOUR	ORDERING CODE	PRICE IN Rs.
	Double Flush w/o IO Mark	Green	2ATF3F4	170.00
		Red		
		Yellow	2ATF8F2	170.00
		Black		
	Double Flush with IO Mark	Green	2ATF3F4(IO)	170.00
		Red		
		Yellow	2ATF8F2(IO)	170.00
		Black		
	1 Flush 1 Projecting w/o IO Mark	Green	2ATF3P4	170.00
		Red		
		Yellow	2ATF8P2	170.00
		Black		
	1 Flush 1 Projecting with IO Mark	Green	2ATF3P4(IO)	170.00
		Red		
		Yellow	2ATF8P2(IO)	170.00
		Black		

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METALLIC SERIES








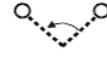
ILLUMINATED FLUSH ACTUATOR WITH LED/ LED BULB

	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	2ALRF1L(S)	475.00	
		Green LED / Green Lens	2ALRF3L	300.00	
		Red LED / Red Lens	2ALRF4L	300.00	
		Amber LED / Amber Lens	2ALRF5L	300.00	
		Blue LED / Blue Lens	2ALRF6L	610.00	
		White LED / Clear Lens	2ALRF7L(S)	475.00	
Yellow LED / Yellow Lens	2ALRF8L	300.00			
<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	2ALF1LB(S)		535.00
		Green LED Bulb / Green Lens	2ALF3LB		295.00
		Red LED Bulb / Red Lens	2ALF4LB		295.00
		Amber LED Bulb / Amber Lens	2ALF5LB		295.00
		Blue LED Bulb / Blue Lens	2ALF6LB		575.00
		White LED Bulb / Clear Lens	2ALF7LB(S)		535.00
	Yellow LED Bulb / Yellow Lens	2ALF8LB		295.00	
<b>LED Bulb</b>	Please mention the voltage required after the ordering code				
	<b>Integral LED</b> 24V, 110V, 230V AC	White LED / White Lens	2ALRF1L(S)F	475.00	
		Green LED / Green Lens	2ALRF3LF	300.00	
		Red LED / Red Lens	2ALRF4LF	300.00	
		Amber LED / Amber Lens	2ALRF5LF	300.00	
		Blue LED / Blue Lens	2ALRF6LF	610.00	
		White LED / Clear Lens	2ALRF7L(S)F	475.00	
	Yellow LED / Yellow Lens	2ALRF8LF	300.00		
<b>Flasher with Integral LED</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	2ALRP1L(S)	475.00	
		Green LED / Green Lens	2ALRP3L	300.00	
		Red LED / Red Lens	2ALRP4L	300.00	
		Amber LED / Amber Lens	2ALRP5L	300.00	
		Blue LED / Blue Lens	2ALRP6L	610.00	
		White LED / Clear Lens	2ALRP7L(S)	475.00	
Yellow LED / Yellow Lens	2ALRP8L	300.00			
<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	2ALP1LB(S)		535.00
		Green LED Bulb / Green Lens	2ALP3LB		295.00
		Red LED Bulb / Red Lens	2ALP4LB		295.00
		Amber LED Bulb / Amber Lens	2ALP5LB		295.00
		Blue LED Bulb / Blue Lens	2ALP6LB		575.00
		White LED / Clear Lens	2ALP7L(S)		535.00
	Yellow LED Bulb / Yellow Lens	2ALP8LB		295.00	
<b>LED Bulb</b>	Please mention the voltage required after the ordering code				
	<b>Integral LED</b> 24V, 110V, 230V AC	White LED / White Lens	2ALRP1LF(S)	475.00	
		Green LED / Green Lens	2ALRP3LF	300.00	
		Red LED / Red Lens	2ALRP4LF	300.00	
		Amber LED / Amber Lens	2ALRP5LF	300.00	
		Blue LED / Blue Lens	2ALRP6LF	610.00	
		White LED / Clear Lens	2ALRP7LF(S)	475.00	
	Yellow LED / Yellow Lens	2ALRP8LF	300.00		
<b>Flasher with Integral LED</b>	Please mention the voltage required after the ordering code				
	<b>Illuminated Projecting Actuator, Push to ON &amp; Push to Release</b>				
	<b>Integral LED</b> 6V, 12V, 24V, 48V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	White LED / White Lens	2ALRPPP1L(S)	635.00	
		Green LED / Green Lens	2ALRPPP3L	465.00	
		Red LED / Red Lens	2ALRPPP4L	465.00	
		Amber LED / Amber Lens	2ALRPPP5L	465.00	
		Blue LED / Blue Lens	2ALRPPP6L	765.00	
		White LED / Clear Lens	2ALRPPP7L(S)	635.00	
Yellow LED / Yellow Lens	2ALRPPP8L	465.00			
<b>Integral LED</b>	Please mention the voltage required after the ordering code				



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






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METALLIC SERIES					
ILLUMINATED SELECTOR ACTUATOR WITH LED					
	TYPE	COLOUR	ORDERING CODE	PRICE IN Rs. INTEGRAL LED	PRICE IN Rs. WITH LED BULB
	<b>2 Position Illuminated Selector Actuator</b>				
	<b>Integral LED</b> 6V, 12V, 24V, 48V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC 	White LED / White Lens	2ASLR1L(S)-2P	645.00	
		Green LED / Green Lens	2ASLR3L-2P	490.00	
		Red LED / Red Lens	2ASLR4L-2P	490.00	
		Amber LED / Amber Lens	2ASLR5L-2P	490.00	
		Blue LED / Blue Lens	2ASLR6L-2P	765.00	
		White LED / Clear Lens	2ASLR7L(S)-2P	645.00	
		Yellow LED / Yellow Lens	2ASLR8L-2P	490.00	
<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	2ASL1LB(S)-2P		740.00
		Green LED Bulb / Green Lens	2ASL3LB-2P		490.00
		Red LED Bulb / Red Lens	2ASL4LB-2P		490.00
		Amber LED Bulb / Amber Lens	2ASL5LB-2P		490.00
		Blue LED Bulb / Blue Lens	2ASL6LB-2P		765.00
		White LED Bulb/ Clear Lens	2ASL7LB(S)-2P		740.00
		Yellow LED Bulb / Yellow Lens	2ASL8LB-2P		490.00
	<b>LED Bulb</b>	Please mention the voltage required after the ordering code			
	<b>Integral LED</b> 6V, 12V, 24V, 48V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC 	White LED / White Lens	2ASLR1L(S)-2PSR	645.00	
		Green LED / Green Lens	2ASLR3L-2PSR	490.00	
		Red LED / Red Lens	2ASLR4L-2PSR	490.00	
		Amber LED / Amber Lens	2ASLR5L-2PSR	490.00	
		Blue LED / Blue Lens	2ASLR6L-2PSR	765.00	
		White LED / Clear Lens	2ASLR7L(S)-2PSR	645.00	
		Yellow LED / Yellow Lens	2ASLR8L-2PSR	490.00	
	<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	2ASL1LB(S)-2PSR		740.00
		Green LED Bulb / Green Lens	2ASL3LB-2PSR		490.00
		Red LED Bulb / Red Lens	2ASL4LB-2PSR		490.00
		Amber LED Bulb / Amber Lens	2ASL5LB-2PSR		490.00
		Blue LED Bulb / Blue Lens	2ASL6LB-2PSR		765.00
		White LED Bulb/ Clear Lens	2ASL7LB(S)-2PSR		740.00
		Yellow LED Bulb / Yellow Lens	2ASL8LB-2PSR		490.00
	<b>LED Bulb</b>	Please mention the voltage required after the ordering code			



METALLIC SERIES

ILLUMINATED SELECTOR WITH LED

	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	2ASLR1L(S)-3P	665.00			
	<b>Integral LED</b>	Green LED / Green Lens	2ASLR3L-3P	515.00			
	6V, 12V, 24V, 48V AC/DC	Red LED / Red Lens	2ASLR4L-3P	515.00			
	110VAC, 110VDC,	Amber LED / Amber Lens	2ASLR5L-3P	515.00			
	230VAC, 220VDC	Blue LED / Blue Lens	2ASLR6L-3P	775.00			
		White LED / Clear Lens	2ASLR7L(S)-3P	665.00			
		Yellow LED / Yellow Lens	2ASLR8L-3P	515.00			
	Please mention the voltage required after the ordering code						
	<b>Momentary</b>	White LED / White Lens	2ASLR1L(S)-3PSR	700.00			
	<b>Integral LED</b>	Green LED / Green Lens	2ASLR3L-3PSR	525.00			
	6V, 12V, 24V, 48V AC/DC	Red LED / Red Lens	2ASLR4L-3PSR	525.00			
	110VAC, 110VDC,	Amber LED / Amber Lens	2ASLR5L-3PSR	525.00			
	230VAC, 220VDC	Blue LED / Blue Lens	2ASLR6L-3PSR	800.00			
		White LED / Clear Lens	2ASLR7L(S)-3PSR	700.00			
		Yellow LED / Yellow Lens	2ASLR8L-3PSR	525.00			
	Please mention the voltage required after the ordering code						
	<b>Stayput / Momentary</b>	White LED / White Lens	2ASLR1L(S)-3PSRL	700.00			
	<b>Integral LED</b>	Green LED / Green Lens	2ASLR3L-3PSRL	525.00			
	6V, 12V, 24V, 48V AC/DC	Red LED / Red Lens	2ASLR4L-3PSRL	525.00			
	110VAC, 110VDC,	Amber LED / Amber Lens	2ASLR5L-3PSRL	525.00			
	230VAC, 220VDC	Blue LED / Blue Lens	2ASLR6L-3PSRL	800.00			
		White LED / Clear Lens	2ASLR7L(S)-3PSRL	700.00			
		Yellow LED / Yellow Lens	2ASLR8L-3PSRL	525.00			
	Please mention the voltage required after the ordering code						
	<b>Stayput / Momentary</b>	White LED / White Lens	2ASLR1L(S)-3PSRR	700.00			
	<b>Integral LED</b>	Green LED / Green Lens	2ASLR3L-3PSRR	525.00			
	6V, 12V, 24V, 48V AC/DC	Red LED / Red Lens	2ASLR4L-3PSRR	525.00			
	110VAC, 110VDC,	Amber LED / Amber Lens	2ASLR5L-3PSRR	525.00			
	230VAC, 220VDC	Blue LED / Blue Lens	2ASLR6L-3PSRR	800.00			
		White LED / Clear Lens	2ASLR7L(S)-3PSRR	700.00			
		Yellow LED / Yellow Lens	2ASLR8L-3PSRR	525.00			
	<b>Integral LED</b>	Please mention the voltage required after the ordering code					
		<b>3 Position illuminated selector actuator with LED Bulb</b>					
		<b>Stayput</b>	White LED Bulb / White Lens	2ASL1LB(S)-3P		760.00	
		<b>LED Bulb, BA9S type</b>	Green LED Bulb / Green Lens	2ASL3LB-3P		505.00	
		24V AC/DC,	Red LED Bulb / Red Lens	2ASL4LB-3P		505.00	
		110VAC, 110VDC	Amber LED Bulb / Amber Lens	2ASL5LB-3P		505.00	
		230VAC, 220VDC	Blue LED Bulb / Blue Lens	2ASL6LB-3P		790.00	
			White LED Bulb / Clear Lens	2ASL7LB(S)-3P		760.00	
			Yellow LED Bulb / Yellow Lens	2ASL8LB-3P		505.00	
		Please mention the voltage required after the ordering code					
		<b>Momentary</b>	White LED Bulb / White Lens	2ASL1LB(S)-3PSR		770.00	
		<b>LED Bulb, BA9S type</b>	Green LED Bulb / Green Lens	2ASL3LB-3PSR		520.00	
		24V AC/DC,	Red LED Bulb / Red Lens	2ASL4LB-3PSR		520.00	
110VAC, 110VDC		Amber LED Bulb / Amber Lens	2ASL5LB-3PSR		520.00		
230VAC, 220VDC		Blue LED Bulb / Blue Lens	2ASL6LB-3PSR		800.00		
		White LED Bulb / Clear Lens	2ASL7LB(S)-3PSR		770.00		
		Yellow LED Bulb / Yellow Lens	2ASL8LB-3PSR		520.00		
Please mention the voltage required after the ordering code							
<b>Stayput / Momentary</b>		White LED Bulb / White Lens	2ASL1LB(S)-3PSRL		770.00		
<b>LED Bulb, BA9S type</b>		Green LED Bulb / Green Lens	2ASL3LB-3PSRL		520.00		
24V AC/DC,		Red LED Bulb / Red Lens	2ASL4LB-3PSRL		520.00		
110VAC, 110VDC		Amber LED Bulb / Amber Lens	2ASL5LB-3PSRL		520.00		
230VAC, 220VDC		Blue LED Bulb / Blue Lens	2ASL6LB-3PSRL		800.00		
		White LED Bulb / Clear Lens	2ASL7LB(S)-3PSRL		770.00		
		Yellow LED Bulb / Yellow Lens	2ASL8LB-3PSRL		520.00		
Please mention the voltage required after the ordering code							
<b>Stayput / Momentary</b>		White LED Bulb / White Lens	2ASL1LB(S)-3PSRR		770.00		
<b>LED Bulb, BA9S type</b>		Green LED Bulb / Green Lens	2ASL3LB-3PSRR		520.00		
24V AC/DC,		Red LED Bulb / Red Lens	2ASL4LB-3PSRR		520.00		
110VAC, 110VDC		Amber LED Bulb / Amber Lens	2ASL5LB-3PSRR		520.00		
230VAC, 220VDC		Blue LED Bulb / Blue Lens	2ASL6LB-3PSRR		800.00		
		White LED Bulb / Clear Lens	2ASL7LB(S)-3PSRR		770.00		
		Yellow LED Bulb / Yellow Lens	2ASL8LB-3PSRR		520.00		
<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					
PILOT LIGHTS					
	TYPE	COLOUR	ORDERING CODE	PRICE IN Rs. INTEGRAL LED	PRICE IN Rs. WITH LED BULB
	<b>Pilot Light with Integral LED</b>				
	<b>Integral LED</b> 6V, 12V, 24V, 48V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	White LED / White Lens	2PLBR1L(S)	435.00	
		Green LED / Green Lens	2PLBR3L	260.00	
		Red LED / Red Lens	2PLBR4L	260.00	
		Amber LED / Amber Lens	2PLBR5L	260.00	
		Blue LED / Blue Lens	2PLBR6L	575.00	
		White LED / Clear Lens	2PLBR7L(S)	435.00	
Yellow LED / Yellow Lens	2PLBR8L	260.00			
<b>Integral LED</b>	Please mention the voltage required after the ordering code				
	<b>Integral LED, Flasher</b> 6V, 12V, 24V, 48V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	White LED / White Lens	2PLBR1LF(S)	435.00	
		Green LED / Green Lens	2PLBR3LF	260.00	
		Red LED / Red Lens	2PLBR4LF	260.00	
		Amber LED / Amber Lens	2PLBR5LF	260.00	
		Blue LED / Blue Lens	2PLBR6LF	575.00	
		White LED / Clear Lens	2PLBR7LF(S)	435.00	
		Yellow LED / Yellow Lens	2PLBR8LF	260.00	
<b>Flasher</b>	Please mention the voltage required after the ordering code				
	<b>Integral LED</b> 415VAC	White LED / White Lens	2PLBR1L(S)	500.00	
		Green LED / Green Lens	2PLBR3L	320.00	
		Red LED / Red Lens	2PLBR4L	320.00	
		Amber LED / Amber Lens	2PLBR5L	320.00	
		Blue LED / Blue Lens	2PLBR6L	635.00	
		White LED / Clear Lens	2PLBR7L(S)	500.00	
		Yellow LED / Yellow Lens	2PLBR8L	320.00	
<b>Integral LED</b>	Please mention the voltage required after the ordering code				
	<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	2PLB1LB(S)		495.00
		Green LED Bulb / Green Lens	2PLB3LB		255.00
		Red LED Bulb / Red Lens	2PLB4LB		255.00
		Amber LED Bulb / Amber Lens	2PLB5LB		255.00
		Blue LED Bulb / Blue Lens	2PLB6LB		525.00
		White LED Bulb / Clear Lens	2PLB7LB(S)		495.00
		Yellow LED Bulb / Yellow Lens	2PLB8LB		255.00
<b>LED Bulb</b>		Please mention the voltage required after the ordering code			
	<b>LED Bulb, BA9S type</b>				
	Primary volt.	Sec. Volt.	White LED Bulb / White Lens	2PLBT1LB(S)XX / YYY	805.00
	110 VAC	6	Green LED Bulb / Green Lens	2PLBT3LBXX / YYY	560.00
	110 VAC	12	Red LED Bulb / Red Lens	2PLBT4LBXX / YYY	560.00
	110 VAC	24	Amber LED Bulb / Amber Lens	2PLBT5LBX X/ YYY	560.00
	Primary volt.	Sec. Volt.	Blue LED Bulb / Blue Lens	2PLBT6LBXX / YYY	835.00
	240 VAC	6	White LED Bulb / Clear Lens	2PLBT7LB(S)XX / YYY	805.00
	240 VAC	12	Yellow LED Bulb / Yellow Lens	2PLBT8LBXX / YYY	560.00
	240 VAC	24			
<b>Connection with Transformer</b>	XX - Primary Voltage YYY - Secondary Voltage				



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**Control & Signalling Devices 22.5 Ø**

METALLIC SERIES					
TWIN ILLUMINATED ACTUATORS WITH LED					
	TYPE	COLOUR	ORDERING CODE	PRICE IN Rs. INTEGRAL LED	PRICE IN Rs. WITH LED BULB
	<b>Twin Illuminated 1 Flush, 1 Projecting (IO) Mark</b>				
	Integral LED 6V, 12V, 24V, 48V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	Green	2ATLR5LF3P4 (IO)	395.00	
		Red			
		Amber lens			
Integral LED	Please mention the voltage required after the ordering code				
	LED Bulb,BA9S type 24V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	Green	2ATL5LBF3P4 (IO)		395.00
		Red			
		Amber lens			
	LED Bulb	Please mention the voltage required after the ordering code			
<b>Twin Illuminated Double Flush, (IO) Mark</b>					
	Integral LED 6V, 12V, 24V, 48V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	Green	2ATLR5LF3F4 (IO)	395.00	
		Red			
		Amber lens			
	Integral LED	Please mention the voltage required after the ordering code			
	LED Bulb,BA9S type 24V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	Green	2ATL5LBF3F4 (IO)		395.00
		Red			
		Amber lens			
	LED Bulb	Please mention the voltage required after the ordering code			









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**Control & Signalling Devices 22.5 Ø**

**METALLIC SERIES**

**ILLUMINATED MUSHROOM WITH LED**

	TYPE	COLOUR	ORDERING CODE	PRICE IN Rs. INTEGRAL LED	PRICE IN Rs. WITH LED BULB
	<b>Illuminated Mushroom, Momentary</b>				
	<b>Integral LED</b> 6V, 12V, 24V, 48V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	Red	2ALRM4L	505.00	
<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	Red	2ALM4LB		505.00
	<b>LED Bulb</b>	Please mention the voltage required after the ordering code			
	<b>Illuminated Mushroom, Push Pull</b>				
	<b>Integral LED</b> 6V, 12V, 24V, 48V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	Red	2ALRMPP4L	560.00	
<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	Red	2ALMPP4LB		575.00
	<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**

**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

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	





#### 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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