TEKNIC

Control and Signaling Devices Ø 22.5 Plastic 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

Pilot lights and illuminated switches 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 415V 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, 48V, 110V and 230V. On request an extra short circuit protection consisting of built in fuse in the LED modules can be provided.
Specific models of pilot lights are available with integral LED chips suitable for operating over wide range of voltage 24V to 230V AC or DC.
Pilot lights are available with built in transformers suitable for operating at 230, 110 volts AC input and 6V, 12V and 24V output.

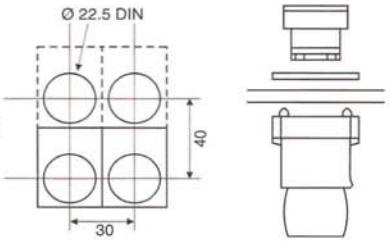
Terminals

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 lense 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, 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	: **Self wiping**, slow break NO or NC
Make and break capacity	
As per IEC 947 - 5 - (1) 1990	: AC 15 4 A, 415V AC
	: DC 13 0.5 A, 110V DC
As per CSA - C22.2 No. 14-95, UL508,	: A 600 Q600
Terminal capacity	: minimum 1 x 0.5 mm², maximum 2 x 1.5 mm² or 1 x 2.5 mm²
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	V	24	120	230
	A	4	3	2

DC 13	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 mm², max. 2 x 1.5 mm² or 1 x 2.5 mm²

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MOMENTARY ACTUATORS

	TYPE	COLOUR	ORDERING CODE	Price in Rs.
		White	P2AF1	41.50
		Black	P2AF2	41.50
		Green	P2AF3	41.50
	Flush	Red	P2AF4	41.50
		Blue	P2AF6	41.50
		Yellow	P2AF8	41.50
Marked Actuators available as per request				
		White	P2AF1A	54.75
		Black	P2AF2A	54.75
	Flush with	Green	P2AF3A	54.75
	Arrow marking	Red	P2AF4A	54.75
		Blue	P2AF6A	54.75
		Yellow	P2AF8A	54.75
		White	P2AP1	41.50
		Black	P2AP2	41.50
	Projecting	Green	P2AP3	41.50
		Red	P2AP4	41.50
		Blue	P2AP6	41.50
		Yellow	P2AP8	41.50
		White	P2AP10	54.75
		Black	P2AP20	54.75
	Projecting with	Green	P2AP30	54.75
	marking	Red	P2AP40	54.75
		Blue	P2AP60	54.75
		Yellow	P2AP80	54.75
		White	P2AF1BT7	70.25
		Black	P2AF2BT7	70.25
		Green	P2AF3BT7	70.25
	Booted	Red	P2AF4BT7	70.25
		Blue	P2AF6BT7	70.25
		Yellow	P2AF8BT7	70.25

*All actuators are supplied with fixing flange

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MUSHROOM HEAD ACTUATORS

	TYPE	COLOUR	ORDERING CODE	Price in Rs.
		Black	P2AM2	67.00
	Momentary	Green	P2AM3	67.00
	Ø 40mm	Red	P2AM4	67.00
		Blue	P2AM6	67.00
		Yellow	P2AM8	67.00
	Push Pull	Black	P2AMPP2	92.75
	Ø 40 mm	Red	P2AMPP4	92.75
	Latching	Black	P2AMLS2	92.75
	Ø 30mm	Red	P2AMLS4	92.75
	Latching	Black	P2AML2	92.75
	Ø 40mm	Red	P2AML4	92.75
	Latching	Black	P2AMLKB2	186.50
	with Key	Red	P2AMLKB4	186.50
	Ø 40mm			
*All actuators are supplied with fixing flange				

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MUSHROOM HEAD ACTUATORS

	TYPE	COLOUR	ORDERING CODE	Price in Rs.
		Black	P2AMJ2	91.50
	Momentary	Green	P2AMJ3	91.50
	Ø 60mm	Red	P2AMJ4	91.50
		Blue	P2AMJ6	91.50
		Yellow	P2AMJ8	91.50
	Push Pull	Black	P2AMPPJ2	121.00
	Ø 60 mm	Red	P2AMPPJ4	121.00
	Latching	Black	P2AMLJ2	121.00
	Ø 60mm	Red	P2AMLJ4	121.00
	Trigger type	Black	P2AMLT2	139.00
	Press to Lock	Red	P2AMLT4	139.00
	turn to release			
	Ø 40 mm			
	Trigger type	Black	P2AMLTKB2	232.25
	Press to Lock	Red	P2AMLTKB4	232.25
	key to release			
	Ø 40 mm			

*All actuators are supplied with fixing flange

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SELECTOR ACTUATORS

	TYPE	COLOUR	ORDERING CODE	Price in Rs.
	Selector 2 position LATCHING	Black	P2AS2-2P	129.50
	with ext. knob		P2AS2E-2P	129.50
	2 position MOMENTARY	Black	P2AS2-2PSR	129.50
	with ext. knob		P2AS2E-2PSR	129.50
	3 position STAY PUT	Black	P2AS2-3P	129.50
	with ext. knob		P2AS2E-3P	129.50
	MOMENTARY on both sides	Black	P2AS2-3PSR	140.25
	with ext. knob		P2AS2E-3PSR	140.25
	3 position MOMENTARY on right	Black	P2AS2-3PSRR	140.25
	with ext. knob		P2AS2E-3PSRR	140.25
	3position MOMENTARY on left	Black	P2AS2-3PSRL	140.25
	with ext. knob		P2AS2E-3PSRL	140.25

*All actuators are supplied with fixing flange

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KEY SELECTOR ACTUATORS

TYPE		COLOUR	ORDERING CODE	Price in Rs.
2 Position Stayput		Black	P2AK2-2PB	179.00
			P2AK2-2PO	179.00
			P2AK2-2PI	179.00
Spring Return		Black	P2AK2-2POSR	179.00
3 Position Stayput		Black	P2AK2-3PA	186.50
		Black	P2AK2-3PB	186.50
		Black	P2AK2-3PC	186.50
Spring Return		Black	P2AK2-3PSR	186.50
Spring Return right to centre		Black	P2AK2-3PSRR	186.50
Spring Return left to centre		Black	P2AK2-3PSRL	186.50

* X stands for position in which key is removable

*All actuators are supplied with fixing flange

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TWIN ACTUATORS

TYPE	COLOUR	ORDERING CODE	Price in Rs.
	Green	P2ATF3F4	79.75
	Red		
Double Flush			
w/o IO Mark	Yellow	P2ATF8F2	79.75
	Black		
	Green	P2ATF3F4(IO)	79.75
	Red		
Double Flush			
with IO Mark	Yellow	P2ATF8F2(IO)	79.75
	Black		
	Green	P2ATF3P4	79.75
1 Flush,	Red		
1 Projecting			
w/o IO Mark	Yellow	P2ATF8P2	79.75
	Black		
1 Flush,	Green	P2ATF3P4(IO)	79.75
1 Projecting	Red		
with IO Mark			
	Yellow	P2ATF8P2(IO)	79.75
	Black		

*All actuators are supplied with fixing flange

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ILLUMINATED MOMENTARY ACTUATORS WITH BULB

	TYPE	COLOUR	ORDERING CODE	Price in Rs. w/o bulb	Price in Rs. with bulb
	Illuminated Flush				
		White	P2ALF1	89.00	105.50
	Filament Bulb	Green	P2ALF3	89.00	105.50
	6V to 130V AC/DC	Red	P2ALF4	89.00	105.50
		Amber	P2ALF5	89.00	105.50
		Blue	P2ALF6	89.00	105.50
		Clear	P2ALF7	89.00	105.50
		Yellow	P2ALF8	89.00	105.50
Direct Connection	**Please mention the voltage required after the ordering code**				
		White	P2ALRF1	95.00	111.50
		Green	P2ALRF3	95.00	111.50
	Filament Bulb	Red	P2ALRF4	95.00	111.50
	24V,48V,130V,230V AC/DC	Amber	P2ALRF5	95.00	111.50
		Blue	P2ALRF6	95.00	111.50
		Clear	P2ALRF7	95.00	111.50
		Yellow	P2ALRF8	95.00	111.50
Connection with	**Please mention the voltage required after the ordering code**				
Resistor					
		White	P2ALRF1 230V AC	95.00	111.50
		Green	P2ALRF3 230V AC	95.00	111.50
	Filament bulb	Red	P2ALRF4 230V AC	95.00	111.50
	230 V AC	Amber	P2ALRF5 230V AC	95.00	111.50
		Blue	P2ALRF6 230V AC	95.00	111.50
		Clear	P2ALRF7 230V AC	95.00	111.50
		Yellow	P2ALRF8 230V AC	95.00	111.50
Connection with					
Resistor + Diode					

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ILLUMINATED ACTUATORS WITH LED

	Type	Colour of LED / Lens	Ordering Code	Price in Rs. with Int. LED	Price in Rs. w/o LED Bulb	Price in Rs. with LED Bulb
	Illuminated Flush, Momentary					
		Yellow LED / White Lens	P2ALRF1L	150.25		
	Integral LED	White LED / White Lens	P2ALRF1L(S)	280.25		
	6V, 12V, 24V, 48V AC/DC	Green LED / Green Lens	P2ALRF3L	150.25		
	110VAC, 110VDC,	Red LED / Red Lens	P2ALRF4L	150.25		
	230VAC, 220VDC	Amber LED / Amber Lens	P2ALRF5L	150.25		
		Blue LED / Blue Lens	P2ALRF6L	362.50		
		Yellow LED / Clear Lens	P2ALRF7L	150.25		
		White LED / Clear Lens	P2ALRF7L(S)	280.25		
		Yellow LED / Yellow Lens	P2ALRF8L	150.25		
Integral	**Please mention the voltage required after the ordering code**					
	LED Bulb, BA9S type	Yellow LED Bulb / White Lens	P2ALF1LB		89.00	166.75
	24V AC/DC,	White LED Bulb / White Lens	P2ALF1LB(S)		89.00	327.75
	110VAC, 110VDC	Green LED Bulb / Green Lens	P2ALF3LB		89.00	192.50
	230VAC, 220VDC	Red LED Bulb / Red Lens	P2ALF4LB		89.00	166.75
		Amber LED Bulb / Amber Lens	P2ALF5LB		89.00	166.75
		Blue LED Bulb / Blue Lens	P2ALF6LB		89.00	347.00
		Yellow LED Bulb / Clear Lens	P2ALF7LB		89.00	166.75
		White LED Bulb/ Clear Lens	P2ALF7LB(S)		89.00	327.75
		Yellow LED Bulb / Yellow Lens	P2ALF8LB		89.00	166.75
Bayonet Bulb	**Please mention the voltage required after the ordering code**					
		Yellow LED / White Lens	P2ALRF1LF	150.25		
	Integral LED	White LED / White Lens	P2ALRF1LF(S)	280.25		
	24V, 110V, 230V, AC	Green LED / Green Lens	P2ALRF3LF	150.25		
		Red LED / Red Lens	P2ALRF4LF	150.25		
		Amber LED / Amber Lens	P2ALRF5LF	150.25		
		Blue LED / Blue Lens	P2ALRF6LF	362.50		
		Yellow LED / Clear Lens	P2ALRF7LF	150.25		
		White LED / Clear Lens	P2ALRF7LF(S)	280.25		
		Yellow LED / Yellow Lens	P2ALRF8LF	150.25		
Flasher	**Please mention the voltage required after the ordering code**					

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ILLUMINATED MOMENTARY ACTUATORS WITH BULB

	TYPE	COLOUR	ORDERING CODE	Price in Rs. w/o bulb	Price in Rs. with bulb
	Illuminated Projecting				
		White	P2ALP1	89.00	105.50
		Green	P2ALP3	89.00	105.50
	Filament Bulb	Red	P2ALP4	89.00	105.50
	6V to 130V AC/DC	Amber	P2ALP5	89.00	105.50
		Blue	P2ALP6	89.00	105.50
		Clear	P2ALP7	89.00	105.50
		Yellow	P2ALP8	89.00	105.50
Direct Connection	**Please mention the voltage required after the ordering code**				
		White	P2ALRP1	95.00	111.50
		Green	P2ALRP3	95.00	111.50
	Filament Bulb	Red	P2ALRP4	95.00	111.50
	24V,48V,130V,230V AC/DC	Amber	P2ALRP5	95.00	111.50
		Blue	P2ALRP6	95.00	111.50
		Clear	P2ALRP7	95.00	111.50
		Yellow	P2ALRP8	95.00	111.50
Connection with					
Resistor	**Please mention the voltage required after the ordering code**				
	Filament bulb	White	P2ALRP1 230V AC	95.00	111.50
	230 V AC	Green	P2ALRP3 230V AC	95.00	111.50
		Red	P2ALRP4 230V AC	95.00	111.50
		Amber	P2ALRP5 230V AC	95.00	111.50
		Blue	P2ALRP6 230V AC	95.00	111.50
		Clear	P2ALRP7 230V AC	95.00	111.50
Connection with		Yellow	P2ALRP8 230V AC	95.00	111.50
Resistor + Diode					

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ILLUMINATED ACTUATORS WITH LED

	TYPE	Colour of LED / Lens	ORDERING CODE	Price in Rs. with Int. LED	Price in Rs. w/o LED Bulb	Price in Rs. with LED Bulb
	Illuminated Projecting, Momentary					
		Yellow LED / White Lens	P2ALRP1L	150.25		
		White LED / White Lens	P2ALRP1L(S)	280.25		
		Green LED / Green Lens	P2ALRP3L	150.25		
	6V to 230V AC,	Red LED / Red Lens	P2ALRP4L	150.25		
	6V to 220V DC	Amber LED / Amber Lens	P2ALRP5L	150.25		
		Blue LED / Blue Lens	P2ALRP6L	362.50		
		Yellow LED / Clear Lens	P2ALRP7L	150.25		
		White LED / Clear Lens	P2ALRP7L(S)	280.25		
		Yellow LED / Yellow Lens	P2ALRP8L	150.25		
Integral	**Please mention the voltage required after the ordering code**					
		Yellow LED Bulb / White Lens	P2ALP1LB		89.00	166.75
		White LED Bulb / White Lens	P2ALP1LB(S)		89.00	327.75
		Green LED Bulb / Green Lens	P2ALP3LB		89.00	192.50
		Red LED Bulb / Red Lens	P2ALP4LB		89.00	166.75
	24V to 230V AC,	Amber LED Bulb / Amber Lens	P2ALP5LB		89.00	166.75
	24V to 220V DC	Blue LED Bulb / Blue Lens	P2ALP6LB		89.00	347.00
		Yellow LED Bulb / Clear Lens	P2ALP7LB		89.00	166.75
		White LED Bulb/ Clear Lens	P2ALP7LB(S)		89.00	327.75
		Yellow LED Bulb / Yellow Lens	P2ALP8LB		89.00	166.75
Bayonet Bulb	**Please mention the voltage required after the ordering code**					
		Yellow LED / White Lens	P2ALRP1LF	150.25		
		White LED / White Lens	P2ALRP1LF(S)	280.25		
		Green LED / Green Lens	P2ALRP3LF	150.25		
		Red LED / Red Lens	P2ALRP4LF	150.25		
	110V AC , 240V AC	Amber LED / Amber Lens	P2ALRP5LF	150.25		
		Blue LED / Blue Lens	P2ALRP6LF	362.50		
		Yellow LED / Clear Lens	P2ALRP7LF	150.25		
		White LED / Clear Lens	P2ALRP7LF(S)	280.25		
		Yellow LED / Yellow Lens	P2ALRP8LF	150.25		
Flasher	**Please mention the voltage required after the ordering code**					

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ILLUMINATED SELECTOR WITH BULB

	TYPE	COLOUR	ORDERING CODE	Price in Rs. w/o bulb	Price in Rs. with bulb
	2 Position Stayput illuminated selector actuator				
		White	P2ASL1-2P	177.75	194.25
	Filament Bulb	Green	P2ASL3-2P	177.75	194.25
	6V to 130V AC/DC	Red	P2ASL4-2P	177.75	194.25
		Amber	P2ASL5-2P	177.75	194.25
		Blue	P2ASL6-2P	177.75	194.25
		Clear	P2ASL7-2P	177.75	194.25
		Yellow	P2ASL8-2P	177.75	194.25
Direct Connection	**Please mention the voltage required after the ordering code**				
		White	P2ASLR1-2P	184.00	200.50
	Filament Bulb	Green	P2ASLR3-2P	184.00	200.50
	24V,48V,130V,230V AC/DC	Red	P2ASLR4-2P	184.00	200.50
		Amber	P2ASLR5-2P	184.00	200.50
		Blue	P2ASLR6-2P	184.00	200.50
		Clear	P2ASLR7-2P	184.00	200.50
		Yellow	P2ASLR8-2P	184.00	200.50
Connection with Resistor	**Please mention the voltage required after the ordering code**				
		White	P2ASLR1-2P 230V AC	184.00	200.50
	Filament bulb	Green	P2ASLR3-2P 230V AC	184.00	200.50
	230 V AC	Red	P2ASLR4-2P 230V AC	184.00	200.50
		Amber	P2ASLR5-2P 230V AC	184.00	200.50
		Blue	P2ASLR6-2P 230V AC	184.00	200.50
		Clear	P2ASLR7-2P 230V AC	184.00	200.50
		Yellow	P2ASLR8-2P 230V AC	184.00	200.50
Connection with Resistor+Diode					
Note :	2 Position Spring return		Replace 2P with 2PSR		

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ILLUMINATED SELECTOR WITH LED

	TYPE	Colour of LED / Lens	ORDERING CODE	Price in Rs. with integral LED	Price in Rs. w/o LED bulb	Price in Rs. with LED bulb
	2 Position Stayput illuminated selector actuator					
		Yellow LED / White Lens	P2ASLR1L-XXXXX	238.00		
	Integral LED	White LED / White Lens	P2ASLR1L(S)-XXXXX	368.00		
	6V, 12V, 24V, 48V AC/DC	Green LED / Green Lens	P2ASLR3L-XXXXX	238.00		
	110VAC, 110VDC,	Red LED / Red Lens	P2ASLR4L-XXXXX	238.00		
	230VAC, 220VDC	Amber LED / Amber Lens	P2ASLR5L-XXXXX	238.00		
		Blue LED / Blue Lens	P2ASLR6L-XXXXX	439.00		
		Yellow LED / Clear Lens	P2ASLR7L-XXXXX	238.00		
		White LED / Clear Lens	P2ASLR7L(S)-XXXXX	368.00		
Integral LED		Yellow LED / Yellow Lens	P2ASLR8L-XXXXX	238.00		
	Please mention the voltage required after the ordering code					
		Yellow LED Bulb / White Lens	P2ASL1LB-XXXXX		177.50	255.25
	LED Bulb BA9S type	White LED Bulb / White Lens	P2ASL1LB(S)-XXXXX		177.50	416.25
	24V AC/DC,	Green LED Bulb / Green Lens	P2ASL3LB-XXXXX		177.50	281.00
	110VAC, 110VDC	Red LED Bulb / Red Lens	P2ASL4LB-XXXXX		177.50	255.25
	230VAC, 220VDC	Amber LED Bulb / Amber Lens	P2ASL5LB-XXXXX		177.50	255.25
		Blue LED Bulb / Blue Lens	P2ASL6LB-XXXXX		177.50	435.50
		Yellow LED Bulb / Clear Lens	P2ASL7LB-XXXXX		177.50	255.25
		White LED Bulb/ Clear Lens	P2ASL7LB(S)-XXXXX		177.50	416.25
		Yellow LED Bulb / Yellow Lens	P2ASL8LB-XXXXX		177.50	255.25
LED Bulb	**Please mention the voltage required after the ordering code**					
		Yellow LED / White Lens	P2ASLR1LF-XXXXX	238.00		
	Integral LED	White LED / White Lens	P2ASLR1LF(S)-XXXXX	368.00		
	24V, 110V, 230V, AC	Green LED / Green Lens	P2ASLR3LF-XXXXX	238.00		
		Red LED / Red Lens	P2ASLR4LF-XXXXX	238.00		
		Amber LED / Amber Lens	P2ASLR5LF-XXXXX	238.00		
		Blue LED / Blue Lens	P2ASLR6LF-XXXXX	439.00		
		Yellow LED / Clear Lens	P2ASLR7LF-XXXXX	238.00		
		White LED / Clear Lens	P2ASLR7LF(S) -XXXXX	368.00		
		Yellow LED / Yellow Lens	P2ASLR8LF-XXXXX	238.00		
Flasher	**Please mention the voltage required after the ordering code**					

			XXXXX	
1		Stayput	2P	
2		Spring return	2PSR	
		XXXXX - Denotes Standard Execution		

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Control & Signalling Devices 22.5 Ø

PLASTIC SERIES

ILLUMINATED SELECTOR WITH BULB

	TYPE	COLOUR	ORDERING CODE	Price in Rs. w/o bulb	Price in Rs. with bulb
	3 Position Stayput illuminated selector actuator				
		White	P2ASL1-3P	187.00	203.50
	Filament Bulb	Green	P2ASL3-3P	187.00	203.50
	6V to 130V AC/DC	Red	P2ASL4-3P	187.00	203.50
		Amber	P2ASL5-3P	187.00	203.50
		Blue	P2ASL6-3P	187.00	203.50
		Clear	P2ASL7-3P	187.00	203.50
		Yellow	P2ASL8-3P	187.00	203.50
Direct Connection	**Please mention the voltage required after the ordering code**				
		White	P2ASLR1-3P	195.50	212.00
	Filament Bulb	Green	P2ASLR3-3P	195.50	212.00
	24V,48V,130V,230V AC/DC	Red	P2ASLR4-3P	195.50	212.00
		Amber	P2ASLR5-3P	195.50	212.00
		Blue	P2ASLR6-3P	195.50	212.00
		Clear	P2ASLR7-3P	195.50	212.00
Connection with		Yellow	P2ASLR8-3P	195.50	212.00
Resistor	**Please mention the voltage required after the ordering code**				
		White	P2ASLR1-3P 230V AC	195.50	212.00
		Green	P2ASLR3-3P 230V AC	195.50	212.00
	Filament bulb	Red	P2ASLR4-3P 230V AC	195.50	212.00
	230 V AC	Amber	P2ASLR5-3P 230V AC	195.50	212.00
		Blue	P2ASLR6-3P 230V AC	195.50	212.00
		Clear	P2ASLR7-3P 230V AC	195.50	212.00
Connection with		Yellow	P2ASLR8-3P 230V AC	195.50	212.00
Resistor+Diode					
1	3 Position Spring return		Replace 3P with 3PSR	202.00	218.50
2	3 Position Spring return Left		Replace 3P with 3PSRL	202.00	218.50
3	3 Position Spring return Right		Replace 3P with 3PSRR	202.00	218.50
Example : 3 Position Spring return right Illuminated Selector Actuator, Red, 110V DC					
Ordering Code : 2ASLR4 - 3PSRR 110V DC					

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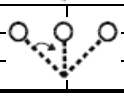
Control & Signalling Devices 22.5 Ø

PLASTIC SERIES

ILLUMINATED SELECTOR WITH LED

	TYPE	Colour of LED / Lens	ORDERING CODE	Price in Rs. with integral LED	Price in Rs. w/o LED bulb	Price in Rs. with LED bulb
	3 Position Illuminated Selector Actuator					
		Yellow LED / White Lens	P2ASLR1L-XXXXX	249.50		
	Integral LED	White LED / White Lens	P2ASLR1L(S)-XXXXX	379.75		
	6V, 12V, 24V, 48V AC/DC	Green LED / Green Lens	P2ASLR3L-XXXXX	249.50		
	110VAC, 110VDC,	Red LED / Red Lens	P2ASLR4L-XXXXX	249.50		
	230VAC, 220VDC	Amber LED / Amber Lens	P2ASLR5L-XXXXX	249.50		
		Blue LED / Blue Lens	P2ASLR6L-XXXXX	448.50		
		Yellow LED / Clear Lens	P2ASLR7L-XXXXX	249.50		
		White LED / Clear Lens	P2ASLR7L(S)-XXXXX	379.75		
Integral LED		Yellow LED / Yellow Lens	P2ASLR8L-XXXXX	249.50		
	Please mention the voltage required after the ordering code					
		Yellow LED Bulb / White Lens	P2ASL1LB-XXXXX		187.00	264.75
	LED Bulb	White LED Bulb / White Lens	P2ASL1LB(S)-XXXXX		187.00	425.75
	BA9S type	Green LED Bulb / Green Lens	P2ASL3LB-XXXXX		187.00	290.50
	24V AC/DC,	Red LED Bulb / Red Lens	P2ASL4LB-XXXXX		187.00	264.75
	110VAC, 110VDC	Amber LED Bulb / Amber Lens	P2ASL5LB-XXXXX		187.00	264.75
	230VAC, 220VDC	Blue LED Bulb / Blue Lens	P2ASL6LB-XXXXX		187.00	445.00
		Yellow LED Bulb / Clear Lens	P2ASL7LB-XXXXX		187.00	264.75
		White LED Bulb/ Clear Lens	P2ASL7LB(S)-XXXXX		187.00	425.75
		Yellow LED Bulb / Yellow Lens	P2ASL8LB-XXXXX		187.00	264.75
LED Bulb	**Please mention the voltage required after the ordering code**					
		Yellow LED / White Lens	P2ASLR1LF-XXXXX	249.50		
	Integral LED	White LED / White Lens	P2ASLR1LF(S)-XXXXX	379.75		
	24V, 110V, 230V, AC	Green LED / Green Lens	P2ASLR3LF-XXXXX	249.50		
		Red LED / Red Lens	P2ASLR4LF-XXXXX	249.50		
		Amber LED / Amber Lens	P2ASLR5LF-XXXXX	249.50		
		Blue LED / Blue Lens	P2ASLR6LF-XXXXX	448.50		
		Yellow LED / Clear Lens	P2ASLR7LF-XXXXX	249.50		
		White LED / Clear Lens	P2ASLR7LF(S)-XXXXX	379.75		
		Yellow LED / Yellow Lens	P2ASLR8LF-XXXXX	249.50		
Flasher	**Please mention the voltage required after the ordering code**					

			XXXXX	
1		Stayput	3P	
2		Spring return	3PSR	
3		Spring return Right	3PSRR	
4		Spring return Left	3PSRL	
		XXXXX - Denotes Standard Execution		

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Control & Signalling Devices 22.5 Ø
PLASTIC SERIES

TWIN ILLUMINATED ACTUATORS WITH BULB

	Type	COLOUR	ORDERING CODE	Price in Rs. w/o bulb	Price in Rs. with bulb
	Illuminated Twin Flush (IO) Marked				
	Filament Bulb	Red	P2ATL5 F3F4 (IO)	130.00	146.50
	6V to 130V AC/DC	Green			
		Amber Lens			
Direct Connection	Please mention the voltage required after the ordering code				
	Filament Bulb	Red	P2ATLR5 F3F4 (IO)	136.50	153.00
	24V,48V,130V,230V AC/DC	Green			
		Amber Lens			
Connection with Resistor	Please mention the voltage required after the ordering code				
	Filament bulb	Red	P2ATLR5 F3F4 (IO) 230V AC	136.50	153.00
	230 V AC	Green			
		Amber Lens			
Connection with Resistor + Diode					
	Illuminated 1 Flush, 1 Projecting (IO) Marked				
	Filament Bulb	Green	P2ATL5 F3P4 (IO)	130.00	146.50
	6V to 130V AC/DC	Red			
		Amber Lens			
Direct Connection	Please mention the voltage required after the ordering code				
	Filament Bulb	Green	P2ATLR5 F3P4 (IO)	136.50	153.00
	24V,48V,130V,230V AC/DC	Red			
		Amber Lens			
Connection with Resistor	Please mention the voltage required after the ordering code				
	Filament bulb	Green	P2ATLR5 F3P4 (IO) 230V AC	136.50	153.00
	230 V AC	Red			
		Amber Lens			
Connection with Resistor + Diode					

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Control & Signalling Devices 22.5 Ø

PLASTIC SERIES

TWIN ILLUMINATED ACTUATORS WITH LED

	TYPE	COLOUR	ORDERING CODE	Price in Rs. with Int. LED	Price in Rs. w/o LED Bulb	Price in Rs. with LED Bulb
	Twin Illuminated 1 Flush, 1 Projecting					
	Integral LED	Green	P2ATLR5L F3P4 (IO)	191.50		
	6V, 12V, 24V, 48V AC/DC	Red				
	110VAC, 110VDC,	Amber Lens / Amber LED				
	230VAC, 220VDC					
Integral	Please mention the voltage required after the ordering code					
	LED Bulb, BA9S type	Green	P2ATLR5LB F3P4 (IO)		130.00	207.75
	24V AC/DC,	Red				
	110VAC, 110VDC	Amber Lens / Amber LED				
	230VAC, 220VDC					
Bayonet Bulb	Please mention the voltage required after the ordering code					
	Integral LED	Green	P2ATLR5LF3P4 (IO)F	191.50		
	24V, 110V, 230V, AC	Red				
		Amber Lens / Amber LED				
	Please mention the voltage required after the ordering code					
Flasher						

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Control & Signalling Devices 22.5 Ø
PLASTIC SERIES

TWIN ILLUMINATED ACTUATORS WITH LED

	TYPE	COLOUR	ORDERING CODE	Price in Rs. with Int. LED	Price in Rs. w/o LED Bulb	Price in Rs. with LED Bulb
	Twin Illuminated Flush (IO) Marked					
	Integral LED	Green	P2ATLR5L F3F4 (IO)	191.50		
	6V, 12V, 24V, 48V AC/DC	Red				
	110VAC, 110VDC,	Amber Lens / Amber LED				
	230VAC, 220VDC					
Integral	Please mention the voltage required after the ordering code					
	LED Bulb					
	BA9S type	Green	P2ATLR5LB F3F4 (IO)		130.00	207.75
	24V AC/DC,	Red				
	110VAC, 110VDC	Amber Lens / Amber LED				
	230VAC, 220VDC					
Bayonet Bulb	Please mention the voltage required after the ordering code					
	Integral LED	Green	P2ATLR5LF F3F4 (IO)	191.50		
	24V, 110V, 230V, AC	Red				
		Amber Lens / Amber LED				
	Please mention the voltage required after the ordering code					
Flasher						

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Control & Signalling Devices 22.5 Ø
PLASTIC SERIES

PILOT LIGHTS WITH BULB

	TYPE		COLOUR	ORDERING CODE	Price in Rs. w/o bulb	Price in Rs. with bulb
	Pilot Light					
			White	P2PLB1	69.00	85.50
	Filament Bulb		Green	P2PLB3	69.00	85.50
	6V to 130V AC/DC		Red	P2PLB4	69.00	85.50
			Amber	P2PLB5	69.00	85.50
			Blue	P2PLB6	69.00	85.50
			Clear	P2PLB7	69.00	85.50
			Yellow	P2PLB8	69.00	85.50
Direct Connection						
			White	P2PLBR1	76.00	92.50
	Fil. Bulb		Green	P2PLBR3	76.00	92.50
	24V,48V,130V,230V AC/DC		Red	P2PLBR4	76.00	92.50
			Amber	P2PLBR5	76.00	92.50
			Blue	P2PLBR6	76.00	92.50
			Clear	P2PLBR7	76.00	92.50
Connection with			Yellow	P2PLBR8	76.00	92.50
Resistor						
			White	P2PLBR1240AC	76.00	92.50
	Filament bulb		Green	P2PLBR3240AC	76.00	92.50
	230 V AC		Red	P2PLBR4240AC	76.00	92.50
			Amber	P2PLBR5240AC	76.00	92.50
			Blue	P2PLBR6240AC	76.00	92.50
			Clear	P2PLBR7240AC	76.00	92.50
Connection with			Yellow	P2PLBR8240AC	76.00	92.50
Resistor + Diode						
	Filament bulb		White	P2PLBT1XX/YYY		246.75
			Green	P2PLBT3XX/YYY		246.75
			Red	P2PLBT4XX/YYY		246.75
	SEC	**PRI**	Amber	P2PLBT5XX/YYY		246.75
	6	**110**	Blue	P2PLBT6XX/YYY		246.75
	12		Clear	P2PLBT7XX/YYY		246.75
	24	**240**	Yellow	P2PLBT8XX/YYY		246.75
Connection with				XX - Secondary Voltage		
Transformer				YYY - Primary Voltage		

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Control & Signalling Devices 22.5 Ø

PLASTIC SERIES

PILOT LIGHTS WITH LED

	TYPE	Colour of LED / Lens	ORDERING CODE	Price in Rs. with Int. LED	Price in Rs. w/o LED Bulb	Price in Rs. with LED Bulb
	Pilot Light					
		Yellow LED / White Lens	P2PLBR1L	130.00		
	Integral LED	White LED / White Lens	P2PLBR1L(S)	274.75		
	6V, 12V, 24V, 48V AC/DC	Green LED / Green Lens	P2PLBR3L	130.00		
	110VAC, 110VDC,	Red LED / Red Lens	P2PLBR4L	130.00		
	230VAC, 220VDC	Amber LED / Amber Lens	P2PLBR5L	130.00		
		Blue LED / Blue Lens	P2PLBR6L	371.75		
		Yellow LED / Clear Lens	P2PLBR7L	130.00		
		White LED / Clear Lens	P2PLBR7L(S)	274.75		
		Yellow LED / Yellow Lens	P2PLBR8L	130.00		
Integral	**Please mention the voltage required after the ordering code**					
		Yellow LED Bulb / White Lens	P2PLB1LB		69.00	146.75
	LED Bulb, BA9S type	White LED Bulb / White Lens	P2PLB1LB(S)		69.00	307.75
	24V AC/DC,	Green LED Bulb / Green Lens	P2PLB3LB		69.00	172.50
	110VAC, 110VDC	Red LED Bulb / Red Lens	P2PLB4LB		69.00	146.75
	230VAC, 220VDC	Amber LED Bulb / Amber Lens	P2PLB5LB		69.00	146.75
		Blue LED Bulb / Blue Lens	P2PLB6LB		69.00	327.00
		Yellow LED Bulb / Clear Lens	P2PLB7LB		69.00	146.75
		White LED Bulb/ Clear Lens	P2PLB7LB(S)		69.00	307.75
		Yellow LED Bulb / Yellow Lens	P2PLB8LB		69.00	146.75
Bayonet Bulb	**Please mention the voltage required after the ordering code**					
		Yellow LED / White Lens	P2PLBR1LF	130.00		
	Integral LED	White LED / White Lens	P2PLBR1LF(S)	274.75		
	24V, 110V, 230V, AC	Green LED / Green Lens	P2PLBR3LF	130.00		
		Red LED / Red Lens	P2PLBR4LF	130.00		
		Amber LED / Amber Lens	P2PLBR5LF	130.00		
		Blue LED / Blue Lens	P2PLBR6LF	371.75		
		Yellow LED / Clear Lens	P2PLBR7LF	130.00		
		White LED / Clear Lens	P2PLBR7LF(S)	274.75		
		Yellow LED / Yellow Lens	P2PLBR8LF	130.00		
Flasher	**Please mention the voltage required after the ordering code**					
		Yellow LED / White Lens	P2PLBR1LU	239.00		
	Integral LED	White LED / White Lens	P2PLBR1LU(S)	383.00		
	24V upto 240V AC/DC	Green LED / Green Lens	P2PLBR3LU	239.00		
		Red LED / Red Lens	P2PLBR4LU	239.00		
		Amber LED / Amber Lens	P2PLBR5LU	239.00		
		Blue LED / Blue Lens	P2PLBR6LU	464.50		
		Yellow LED / Clear Lens	P2PLBR7LU	239.00		
		White LED / Clear Lens	P2PLBR7LU(S)	383.00		
		Yellow LED / Yellow Lens	P2PLBR8LU	239.00		
Integral						
		Yellow LED / White Lens	P2PLBR1L	165.00		
	Integral LED	White LED / White Lens	P2PLBR1L(S)	315.00		
	415VAC	Green LED / Green Lens	P2PLBR3L	165.00		
		Red LED / Red Lens	P2PLBR4L	165.00		
		Amber LED / Amber Lens	P2PLBR5L	165.00		
		Blue LED / Blue Lens	P2PLBR6L	410.00		
		Yellow LED / Clear Lens	P2PLBR7L	165.00		
		White LED / Clear Lens	P2PLBR7L(S)	315.00		
		Yellow LED / Yellow Lens	P2PLBR8L	165.00		

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Control & Signalling Devices 22.5 Ø
PLASTIC SERIES

LED PILOT LIGHTS ECONOMIC SERIES

Type	Colour of LED / Lens	ORDERING CODE	Price in Rs. with Int. LED
Integral LED	Yellow LED / White Lens	3PLBR1L	115.75
6V, 12V, 24V, 48V AC/DC	White LED / White Lens	3PLBR1L(S)	260.25
110VAC, 110VDC,	Green LED / Green Lens	3PLBR3L	115.75
230VAC, 220VDC	Red LED / Red Lens	3PLBR4L	115.75
	Amber LED / Amber Lens	3PLBR5L	115.75
	Blue LED / Blue Lens	3PLBR6L	359.00
	Yellow LED / Clear Lens	3PLBR7L	115.75
	White LED / Clear Lens	3PLBR7L(S)	260.25
	Yellow LED / Yellow Lens	3PLBR8L	115.75
Please mention the voltage required after the ordering code			

Integral LED	Yellow LED / White Lens	3PLBR1LU	187.75
24V upto 240V AC/DC	White LED / White Lens	3PLBR1LU(S)	333.00
	Green LED / Green Lens	3PLBR3LU	187.75
	Red LED / Red Lens	3PLBR4LU	187.75
	Amber LED / Amber Lens	3PLBR5LU	187.75
	Blue LED / Blue Lens	3PLBR6LU	431.50
	Yellow LED / Clear Lens	3PLBR7LU	187.75
	White LED / Clear Lens	3PLBR7LU(S)	333.00
	Yellow LED / Yellow Lens	3PLBR8LU	187.75

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PLASTIC SERIES

CONTACT ELEMENTS

TYPE	ORDERING CODE	Price in Rs.
PANEL MOUNTING		
NORMALLY OPEN SILVER CONTACTS	S1	41.50
NORMALLY CLOSED SILVER CONTACTS	S2	41.50
NORMALLY OPEN GOLD CONTACTS	S3	84.00
NORMALLY CLOSED GOLD CONTACTS	S4	84.00
BASE MOUNTING		
NORMALLY OPEN SILVER CONTACTS	S5	41.50
NORMALLY CLOSED SILVER CONTACTS	S6	41.50
NORMALLY OPEN GOLD CONTACTS	S7	84.00
NORMALLY CLOSED GOLD CONTACTS	S8	84.00

SPECIAL PURPOSE ACTUATORS

TYPE	COLOUR	ORDERING CODE	Price in Rs.
Flush Relay	White	P2AF1RR	53.75
Reset Actuators	Black	P2AF2RR	53.75
	Green	P2AF3RR	53.75
	Red	P2AF4RR	53.75
	Blue	P2AF6RR	53.75
	Yellow	P2AF8RR	53.75

*All actuators are supplied with fixing flange

Control and signalling devices Ø 22.5 P series

Ordering instructions

1. Actuators, illuminated actuators, contact elements, lense assemblies & pilot lights can all be ordered separately or in combination.
2. Prefix P2 for all actuators and combinations indicates Ø 22.5 P series.
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 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

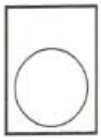
Accessories and spares

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

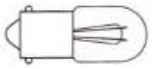
Legend plate Ø 60 mm yellow with black characters for **EMERGENCY STOP**



Filament bulb

Filament bulb type BA9S, OAL 28mm

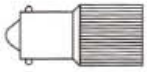
Voltage :	6	12	24	30	48	60	130
Watts :	1	2	2	2	2	2	2.6



LED bulb

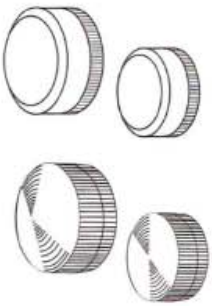
LED multichip bulb type BA9S, OAL 28mm

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



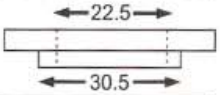
Lenses

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



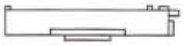
Adaptor for fixing Ø 22.5 devices in Ø 30.5 cutout.

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

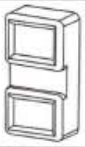
Colour of Boot : Clear
Type No : 2ALBT7

Boot for twin actuator

Colour of Boot : Clear
Type No : 2ATBT7

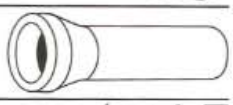
Boot for twin illuminated actuator

Colour of Boot : Clear
Type No : 2ATLBT7



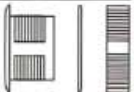
Bulb extractor

Type No. : 2BA9SE



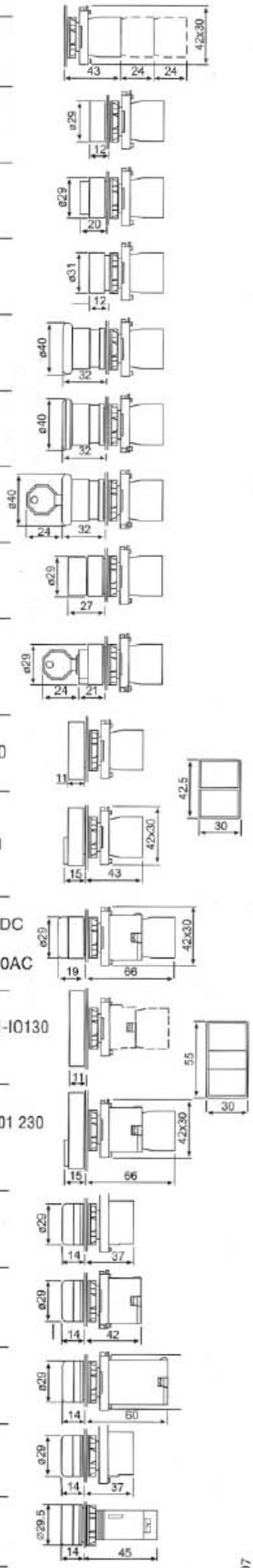
Blanking plug for Ø 22.5 hole, black

Type No. : 2BP2



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" Flush - Flush	P2ATF2-F4-IO	Flush-Black	1 NO	P2PSTF210-F401-I0
		Flush-Red	1 NC	
Twin Pushbutton not marked Flush - Projecting	P2ATF3-P4	Flush-Green	1NO+1NC	P2PSTF311-P411
		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" Flush - Flush direct connection (130V)	P2ATL3-F2 -F4 IO130	Lense-Green Flush-Black Flush-Red	1 NO + 1 NC 1 NC	P2PSTL3F211-F401-IO130
Twin Luminous Pushbutton not marked Flush - Projecting with resistance and (230AC)	P2ATLR5-F3 -P4230	Lense-Amber Flush-Green Proj.-Red	1 NO 1 NC	P2PSTLR5F310-P401 230
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



Other products include Ø22.5 controlgear products in metal series, Ø30.5 controlgear products and aluminium / plastic control stations.

Jan 2007

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