

Control and signalling devices Ø 22.5 P series

Salient features

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

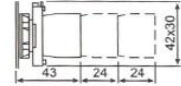
- Economy of space • Aesthetically elegant • SELF WIPING CONTACTS • Robust in materials of construction
- Larger operating surface than Ø 30.5 series • Simple to fix - screw driver is all that is required
- Safe in operation
 - Fixing method unaffected by excessive vibration-unit does not rotate
 - Protection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

Actuators

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

Contact elements

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



Illuminated pushbuttons and pilot lights

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

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

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

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

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

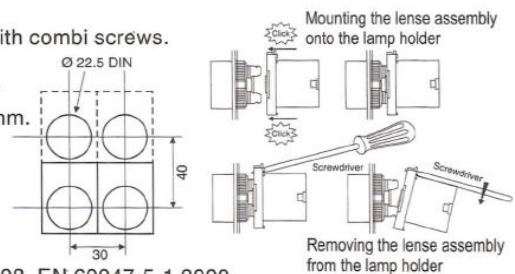
Terminals

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

Fixing

The P series control devices Ø 22.5 can be fixed in any position on panels of 1 to 5 mm thickness. We recommend minimum fixing centres of 30mm X 40mm.

However, the dimensions and configuration should be decided on the basis of the application. The actuators and the lense assemblies lock on the holding bracket. Details of the assembly shown in diagram.



Electrical and mechanical characteristics

Environment

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

Contact Block

Rated insulation voltage	:	500 V																								
Rated thermal current	:	10 A																								
Contact operation	:	Self wiping , slow break NO or NC																								
Make and break capacity	:																									
As per IEC 947 - 5 - (1) 1990	:	AC 15 4 A , 415 V AC DC 13 0.5 A , 110 V DC																								
Terminal capacity	:	Minimum 1 x 0.5 mm ² , maximum 2 x 1.5 mm ² or 1 x 2.5 mm ²																								
Terminal marking	:	1-2 for NC, 3-4 for NO																								
Short circuit protection	:	10 A cartridge fuse HRC type, rated for resistive loading																								
Mechanical life	:	Over 1 million operations																								
Electrical rating	:																									
(for 1 million operating cycles, operating at 3600 cycles per hour, load factor 0.5)	:	<table border="0" style="display: inline-table; vertical-align: middle;"> <tr> <td>AC 15</td> <td></td> <td>V</td> <td>24</td> <td>120</td> <td>230</td> <td></td> <td>DC 13</td> <td></td> <td>V</td> <td>24</td> <td>110</td> </tr> <tr> <td></td> <td></td> <td>A</td> <td>4</td> <td>3</td> <td>2</td> <td></td> <td></td> <td></td> <td>A</td> <td>0.5</td> <td>0.2</td> </tr> </table>	AC 15		V	24	120	230		DC 13		V	24	110			A	4	3	2				A	0.5	0.2
AC 15		V	24	120	230		DC 13		V	24	110															
		A	4	3	2				A	0.5	0.2															

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

Current consumptions (applicable to all colours)

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

Voltage limits (nominal voltage) : < 20% of rated voltage >

Short circuit protection : on specific request

Terminal capacity : min. 1 x 0.5 mm², max. 2 x 1.5 mm² or 1 x 2.5 mm²

Control and signalling devices Ø 22.5 P series

Ordering instructions

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

3. Some examples of type numbers:

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

Accessories and spares

Legend plates

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



Filament bulb

Filament bulb type BA9S, OAL 28mm

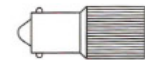
Voltage	: 6	12	24	30	48	60	130
Watts	: 1	2	2	2	2	2	2.6



LED bulb

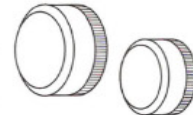
LED multichip bulb type BA9S, OAL 28mm

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



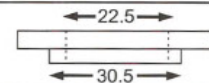
Lenses

Colour of lense	: Translucent	Green	Red	Amber	Blue	Clear	Yellow
For pilot lights with filament bulb	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



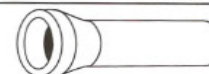
Boot for twin illuminated actuator

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
	Flush	White	P2AF1
		Black	P2AF2
		Green	P2AF3
		Red	P2AF4
		Blue	P2AF6
		Yellow	P2AF8
	Projecting	White	P2AP1
		Black	P2AP2
		Green	P2AP3
		Red	P2AP4
		Blue	P2AP6
		Yellow	P2AP8
	Flush with arrow marking	White	P2AF1A
		Black	P2AF2A
	Flush Relay Reset	White	P2AF1RR
		Black	P2AF2RR
		Green	P2AF3RR
		Red	P2AF4RR
		Blue	P2AF6RR
		Yellow	P2AF8RR
	Booted	White	P2AF1BT7
		Black	P2AF2BT7
		Green	P2AF3BT7
		Red	P2AF4BT7
		Blue	P2AF6BT7
		Yellow	P2AF8BT7

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

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

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SELECTOR ACTUATORS

	TYPE		COLOUR	ORDERING CODE
	2 position LATCHING		Black	P2AS2-2P
	With ext. knob			P2AS2E-2P
	MOMENTARY			P2AS2-2PSR
	With ext. knob			P2AS2E-2PSR
	3 position STAY PUT		Black	P2AS2-3P
	With ext. knob			P2AS2E-3P
	MOMENTARY on both sides			P2AS2-3PSR
	With ext. knob			P2AS2E-3PSR
	MOMENTARY on right			P2AS2-3PSRR
	With ext. knob			P2AS2E-3PSRR
	MOMENTARY on left			P2AS2-3PSRL
	With ext. knob			P2AS2E-3PSRL

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KEY SELECTOR ACTUATORS



TYPE		COLOUR	ORDERING CODE
2 POSITION Stayput		Black	P2AK2-2PB
			P2AK2-2PO
			P2AK2-2PI
			P2AK2-2POSR
3 POSITION Stayput		Black	P2AK2-3PA
			P2AK2-3PB
			P2AK2-3PC
			P2AK2-3PSR
			P2AK2-3PSRR
			P2AK2-3PSRL
* X stands for position in which key is removable			

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TWIN ACTUATORS

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

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PLASTIC SERIES			
ILLUMINATED MOMENTARY ACTUATORS WITH BULB			
	TYPE	COLOUR	ORDERING CODE
	Filament Bulb 6V to 130V AC/DC	White	P2ALF1
		Green	P2ALF3
		Red	P2ALF4
		Amber	P2ALF5
		Blue	P2ALF6
		Clear	P2ALF7
		Yellow	P2ALF8
		Direct Connection	Please mention the voltage required after the ordering code
	Filament Bulb 24V, 48V, 110V, 230 V AC/DC	White	P2ALRF1
		Green	P2ALRF3
		Red	P2ALRF4
		Amber	P2ALRF5
		Blue	P2ALRF6
		Clear	P2ALRF7
		Yellow	P2ALRF8
		Connection with Resistor	Please mention the voltage required after the ordering code
	Filament Bulb 6V to 130V AC/DC	White	P2ALP1
		Green	P2ALP3
		Red	P2ALP4
		Amber	P2ALP5
		Blue	P2ALP6
		Clear	P2ALP7
		Yellow	P2ALP8
		Direct Connection	Please mention the voltage required after the ordering code
	Filament Bulb 24V, 48V, 110V, 230 V AC/DC	White	P2ALRP1
		Green	P2ALRP3
		Red	P2ALRP4
		Amber	P2ALRP5
		Blue	P2ALRP6
		Clear	P2ALRP7
		Yellow	P2ALRP8
		Connection with Resistor	Please mention the voltage required after the ordering code

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PLASTIC SERIES

ILLUMINATED ACTUATORS WITH INTEGRAL LED / LED BULB

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

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PLASTIC SERIES			
ILLUMINATED SELECTOR WITH FILAMENT BULB			
	TYPE	COLOUR	ORDERING CODE
	2 Position Stayput		
	Filament bulb 6V to 130V AC/DC	White	P2ASL1-2P
		Green	P2ASL3-2P
		Red	P2ASL4-2P
		Amber	P2ASL5-2P
		Blue	P2ASL6-2P
		Clear	P2ASL7-2P
		Yellow	P2ASL8-2P
Direct Connection	Please mention the voltage required after the ordering code		
	Filament bulb 24 V,48V,110V, 230V AC/DC	White	P2ASLR1-2P
		Green	P2ASLR3-2P
		Red	P2ASLR4-2P
		Amber	P2ASLR5-2P
		Blue	P2ASLR6-2P
		Clear	P2ASLR7-2P
		Yellow	P2ASLR8-2P
	Connection with Resistor	Please mention the voltage required after the ordering code	
	2 Position Momentary		
	Filament bulb 6V to 130V AC/DC	White	P2ASL1-2PSR
		Green	P2ASL3-2PSR
		Red	P2ASL4-2PSR
		Amber	P2ASL5-2PSR
		Blue	P2ASL6-2PSR
		Clear	P2ASL7-2PSR
		Yellow	P2ASL8-2PSR
Direct Connection	Please mention the voltage required after the ordering code		
	Filament bulb 24 V,48V,110V, 230V AC/DC	White	P2ASLR1-2PSR
		Green	P2ASLR3-2PSR
		Red	P2ASLR4-2PSR
		Amber	P2ASLR5-2PSR
		Blue	P2ASLR6-2PSR
		Clear	P2ASLR7-2PSR
		Yellow	P2ASLR8-2PSR
	Connection with Resistor	Please mention the voltage required after the ordering code	











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PLASTIC SERIES











ILLUMINATED SELECTOR ACTUATOR WITH LED

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

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





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Control & Signalling Devices 22.5 Ø

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

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Control & Signalling Devices 22.5 Ø

PLASTIC SERIES			
TWIN ILLUMINATED ACTUATORS WITH FILAMENT BULB			
	TYPE	COLOUR	ORDERING CODE
	Twin Illuminated 1 Flush, 1 Projecting (IO) Mark		
	Filament bulb 6V to 130V AC/DC	Red	P2ATL5 F3P4 (IO)
		Green	
		Amber Lens	
Direct Connection	Please mention the voltage required after the ordering code		
	Filament bulb 24 V,48V,110V, 230V AC/DC	Red	P2ATLR5 F3P4 (IO)
		Green	
		Amber Lens	
	Connection with Resistor	Please mention the voltage required after the ordering code	
	Twin Illuminated Double Flush, (IO) Mark		
	Filament bulb 6V to 130V AC/DC	Red	P2ATL5 F3F4 (IO)
		Green	
		Amber Lens	
Direct Connection	Please mention the voltage required after the ordering code		
	Filament bulb 24 V,48V,110V, 230V AC/DC	Red	P2ATLR5 F3F4 (IO)
		Green	
		Amber Lens	
	Connection with Resistor	Please mention the voltage required after the ordering code	

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Control & Signalling Devices 22.5 Ø

PLASTIC SERIES

TWIN ILLUMINATED ACTUATORS WITH LED			
	TYPE	COLOUR	ORDERING CODE
	Twin Illuminated 1 Flush, 1 Projecting, (IO) Mark		
	Integral LED 6V, 12V, 24V, 48V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	Green	P2ATLR5LF3P4 (IO)
		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)
		Red	
		Amber lens	
	LED Bulb	Please mention the voltage required after the ordering code	
	Twin Illuminated Double Flush, (IO) Mark		
	Integral LED 6V, 12V, 24V, 48V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	Green	P2ATLR5L F3F4 (IO)
		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	P2ATLR5LB F3F4 (IO)
		Red	
		Amber lens	
	LED Bulb	Please mention the voltage required after the ordering code	

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Control & Signalling Devices 22.5 Ø


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

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Control & Signalling Devices 22.5 Ø



PLASTIC SERIES

PILOT LIGHTS

	TYPE	COLOUR	ORDERING CODE
	Pilot Light with Integral LED		
	Integral LED 6V, 12V, 24V, 48V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	White LED / White Lens	P2PLBR1L(S)
		Green LED / Green Lens	P2PLBR3L
		Red LED / Red Lens	P2PLBR4L
		Amber LED / Amber Lens	P2PLBR5L
		Blue LED / Blue Lens	P2PLBR6L
		White LED / Clear Lens	P2PLBR7L(S)
		Yellow LED / Yellow Lens	P2PLBR8L
Integral LED	Please mention the voltage required after the ordering code		
	Integral LED, Flasher 24V, 110V, 230V AC	White LED Bulb / White Lens	P2PLBR1LF(S)
		Green LED Bulb / Green Lens	P2PLBR3LF
		Red LED Bulb / Red Lens	P2PLBR4LF
		Amber LED Bulb / Amber Lens	P2PLBR5LF
		Blue LED Bulb / Blue Lens	P2PLBR6LF
		White LED Bulb / Clear Lens	P2PLBR7LF(S)
		Yellow LED Bulb / Yellow Lens	P2PLBR8LF
Integral LED	Please mention the voltage required after the ordering code		
	Integral LED, Universal 24V upto 240V AC / DC	White LED / White Lens	P2PLBR1LU(S)
		Green LED / Green Lens	P2PLBR3LU
		Red LED / Red Lens	P2PLBR4LU
		Amber LED / Amber Lens	P2PLBR5LU
		Blue LED / Blue Lens	P2PLBR6LU
		White LED / Clear Lens	P2PLBR7LU(S)
		Yellow LED / Yellow Lens	P2PLBR8LU
Integral LED, Universal	Please mention the voltage required after the ordering code		
	Integral LED 415VAC	White LED / White Lens	P2PLBR1L(S)
		Green LED / Green Lens	P2PLBR3L
		Red LED / Red Lens	P2PLBR4L
		Amber LED / Amber Lens	P2PLBR5L
		Blue LED / Blue Lens	P2PLBR6L
		White LED / Clear Lens	P2PLBR7L(S)
		Yellow LED / Yellow Lens	P2PLBR8L
Integral LED, 415VAC	Please mention the voltage required after the ordering code		
	Integral LED, Test Lamp 24V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	White LED / White Lens	P2PLBR1L(S)**TL
		Green LED / Green Lens	P2PLBR3L**TL
		Red LED / Red Lens	P2PLBR4L**TL
		Amber LED / Amber Lens	P2PLBR5L**TL
		Blue LED / Blue Lens	P2PLBR6L**TL
		White LED / Clear Lens	P2PLBR7L(S)**TL
		Yellow LED / Yellow Lens	P2PLBR8L**TL
Integral LED, Test Lamp	** 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
	Pilot Light with LED Bulb		
	LED Bulb, BA9S type 24V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	White LED Bulb / White Lens	P2PLB1LB(S)
		Green LED Bulb / Green Lens	P2PLB3LB
		Red LED Bulb / Red Lens	P2PLB4LB
		Amber LED Bulb / Amber Lens	P2PLB5LB
		Blue LED Bulb / Blue Lens	P2PLB6LB
		White LED Bulb / Clear Lens	P2PLB7LB(S)
Yellow LED Bulb / Yellow Lens	P2PLB8LB		
LED Bulb	Please mention the voltage required after the ordering code		
	LED Bulb		
	Pri. Volt.	Sec Volt.	White LED Bulb / White Lens
	110VAC	06	P2PLB1LB(S) XXX / YY
	110VAC	12	Green LED Bulb / Green Lens
	110VAC	24	P2PLB3LB XXX / YY
	110VAC	24	Red LED Bulb / Red Lens
	110VAC	24	P2PLB4LB XXX / YY
	110VAC	24	Amber LED Bulb / Amber Lens
	110VAC	24	P2PLB5LB XXX / YY
Pri. Volt.	Sec Volt.	Blue LED Bulb / Blue Lens	
240VAC	06	P2PLB6LB XXX / YY	
240VAC	12	White LED Bulb / Clear Lens	
240VAC	12	P2PLB7LB(S) XXX / YY	
240VAC	24	Yellow LED Bulb / Yellow Lens	
240VAC	24	P2PLB8LB XXX / YY	
Connection with Transformer	XXX - Primary Voltage		
	YY - Secondary Voltage		

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Control & Signalling Devices 22.5 Ø PLASTIC SERIES

LED PILOT LIGHTS ECONOMY SERIES

	TYPE	COLOUR	ORDERING CODE
	Integral LED 6V, 12V, 24V, 48V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	White LED / White Lens	3PLBR1L(S)
		Green LED / Green Lens	3PLBR3L
		Red LED / Red Lens	3PLBR4L
		Amber LED / Amber Lens	3PLBR5L
		Blue LED / Blue Lens	3PLBR6L
		White LED / Clear Lens	3PLBR7L(S)
		Yellow LED / Yellow Lens	3PLBR8L
		Please mention the voltage required after the ordering code	
	Integral LED, 24V upto 240V AC / DC	White LED / White Lens	3PLBR1LU(S)
		Green LED / Green Lens	3PLBR3LU
		Red LED / Red Lens	3PLBR4LU
		Amber LED / Amber Lens	3PLBR5LU
		Blue LED / Blue Lens	3PLBR6LU
		White LED / Clear Lens	3PLBR7LU(S)
		Yellow LED / Yellow Lens	3PLBR8LU
Please mention the voltage required after the ordering code			
	Integral LED, Dual colour		
	24VAC	Green LED	
	110VAC	Red LED	3PLBR34L
	230VAC	White Lens	
Please mention the voltage required after the ordering code			
	Integral LED with Buzzer		
	12VAC/DC	Red LED	3PLBR4LBZ
	24VAC/DC		
	110VAC		
	230VAC		
Please mention the voltage required after the ordering code			
	Integral LED with Test Lamp		
	12VAC/DC	Red LED	3PLBR4LTL
	24VAC/DC		
	110VAC		
	230VAC		
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
	PANEL MOUNTING	
	NORMALLY OPEN (NO) SILVER CONTACT	S1
	NORMALLY OPEN (NO) SILVER CONTACT (BREAK BEFORE MAKE)	S1S
	NORMALLY OPEN (NO) SILVER CONTACT (MAKE BEFORE BREAK)	S1E
	NORMALLY CLOSED (NC) SILVER CONTACT	S2
	NORMALLY OPEN (NO) GOLD CONTACT	S3
	NORMALLY CLOSED (NC) GOLD CONTACT	S4
	BASE MOUNTING	
	NORMALLY OPEN (NO) SILVER CONTACT	S5
	NORMALLY CLOSED (NC) SILVER CONTACT	S6
	NORMALLY OPEN (NO) GOLD CONTACT	S7
	NORMALLY CLOSED (NC) GOLD CONTACT	S8

Common types of control and signalling devices Ø 22.5 P series

Description	Type of Actuator or Lense Assembly	Colour of Actuator or Lense	Contact Elements NO = S1 NC = S2 or Lamp Holder	Type of complete Control or Signalling Device	
Flush Pushbutton	P2AF3	Green	1NO	P2PSF310	
	P2AF8	Yellow	2NO+1NC	P2PSF821	
Projecting Pushbutton	P2AP2	Black	2NC	P2PSP202	
	P2AP4	Red	3NO+3NC	P2PSP433	
Booted Pushbutton	P2AB3BT7	Green	2NO	P2PSB3BT720	
	P2AB4BT7	Red	2NC	P2PSB4BT702	
Mushroom Pushbutton Spring return	P2AM2	Black	1NO+1NC	P2PSM211	
	P2AM4	Red	1NC	P2PSM401	
Mushroom Pushbutton latching turn to release	P2AML2	Black	1NC	P2PSML201	
	P2AML4	Red	2NO+2NC	P2PSML422	
Mushroom Pushbutton latching, key to release	P2AMLKB4	Red	1NO+1NC	P2PSMLKB411	
Selector Actuator(2 Pos)	P2AS2-2P	Black	1NO	P2PSS210-2P	
Selector Actuator(3 Pos)	P2AS2-3P	Black	1NO+1NC	P2PSS211-3P	
Key Actuator (2 Pos), key removable in both positions 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	