TEKNIC

CE ℛ🇺 CSA us DVE

Control and Signaling Devices Ø 22.5 Plastic Series

Control and signalling devices Ø 22.5 P series

Salient features
This range of Ø 22.5 P series pushbuttons, selector switches, illuminated switches, and pilot lights in engineering plastic construction have been designed to provide the following salient features:
- Economy of space   • Aesthetically elegant   • SELF WIPING CONTACTS   • Robust in materials of construction
- Larger operating surface than Ø 30.5 series   • Simple to fix - screw driver is all that is required
- Safe in operation
    - Fixing method unaffected by excessive vibration-unit does not rotate   • Very good flame resistance
    - Protection against electrical shock   • Shrouded terminals
    - Resistant to corrosion

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

Contact elements
The contact elements are double break and have **self wiping** contacts. The elements are interchangeable and can be stacked without additional hardware. 1 to 6 elements (NO or NC) can be used with non illuminated actuators, whereas, 1 to 4 elements (NO or NC) can be used for illuminated actuators. **Gold plated NO and NC contact elements for low voltage, low current switching circuits, < 25 mA, are available.**
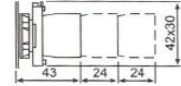
Illuminated pushbuttons and pilot lights
Pilot lights and illuminated switches are suitable for direct connection, through series resistor, through series resistor and diode, using bayonet cap filament bulb type BA9S, as follows :

Supply voltage for direct connection without series resistor .... : 6V-130V
Supply voltage through series resistor... : 12V-415V
Supply voltage through series resistor and diode .... : 230V AC
Bulb .... : Filament, type BA9s with OAL max., 28 mm

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

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

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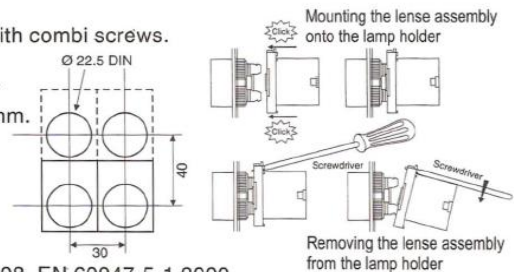
Electrical and mechanical characteristics
Environment

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

Contact Block

Rated insulation voltage	:	500 V
Rated thermal current	:	10 A
Contact operation	:	**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 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

Electrical rating
(for 1 million operating cycles, operating 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

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
3. Some examples of type numbers: Individual mounting : S6, S8   switching circuits < 25 mA

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**
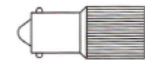
Filament bulb
Filament bulb type BA9S, OAL 28mm

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
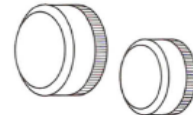
Adaptor for fixing Ø 22.5 devices in Ø 30.5 cutout.
Type No. : 2ADP

←22.5→
←30.5→
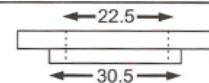
Fixing flange
Type No. : P2BRK

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
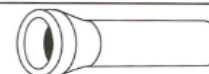Colour of Boot :   Clear
Type No   : 2ATBT7

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

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

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PLASTIC SERIES

MUSHROOM HEAD ACTUATORS

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

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SELECTOR ACTUATORS

	TYPE	COLOUR	ORDERING CODE
	Selector 2 position LATCHING	Black	P2AS2-2P
	with ext. knob		P2AS2E-2P
	2 position MOMENTARY	Black	P2AS2-2PSR
	with ext. knob		P2AS2E-2PSR
	3 position STAY PUT	Black	P2AS2-3P
	with ext. knob		P2AS2E-3P
	MOMENTARY on both sides	Black	P2AS2-3PSR
	with ext. knob		P2AS2E-3PSR
	3 position MOMENTARY on right	Black	P2AS2-3PSRR
	with ext. knob		P2AS2E-3PSRR
	3position MOMENTARY on left	Black	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
	Spring Return		Black	P2AK2-2POSR
	3 Position Stayput		Black	P2AK2-3PA
			Black	P2AK2-3PB
			Black	P2AK2-3PC
	Spring Return		Black	P2AK2-3PSR
	Spring Return right to centre		Black	P2AK2-3PSRR
	Spring Return left to centre		Black	P2AK2-3PSRL
	* X stands for position in which key is removable			

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TWIN ACTUATORS

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

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ILLUMINATED MOMENTARY ACTUATORS WITH BULB

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

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ILLUMINATED ACTUATORS WITH INTEGRAL LED / LED BULB
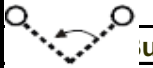
	Type	Colour of LED / Lens	Ordering Code
	Illuminated Flush, Momentary		
	Integral LED	White LED / White Lens	P2ALRF1L(S)
	6V, 12V, 24V, 48V AC/DC	Green LED / Green Lens	P2ALRF3L
	110VAC, 110VDC,	Red LED / Red Lens	P2ALRF4L
	230VAC, 220VDC	Amber LED / Amber Lens	P2ALRF5L
		Blue LED / Blue Lens	P2ALRF6L
		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	White LED Bulb / White Lens	P2ALF1LB(S)
	24V AC/DC,	Green LED Bulb / Green Lens	P2ALF3LB
	110VAC, 110VDC	Red LED Bulb / Red Lens	P2ALF4LB
	230VAC, 220VDC	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, Momentary		
	Integral LED	White LED / White Lens	P2ALRP1L(S)
	6V, 12V, 24V, 48V AC/DC	Green LED / Green Lens	P2ALRP3L
	110VAC, 110VDC,	Red LED / Red Lens	P2ALRP4L
	230VAC, 220VDC	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**		
		White LED Bulb / White Lens	P2ALP1LB(S)
	LED Bulb, BA9S type	Green LED Bulb / Green Lens	P2ALP3LB
	24V AC/DC,	Red LED Bulb / Red Lens	P2ALP4LB
	110VAC, 110VDC	Amber LED Bulb / Amber Lens	P2ALP5LB
	230VAC, 220VDC	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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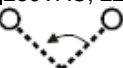
	TYPE	COLOUR	ORDERING CODE
ILLUMINATED SELECTOR WITH BULB			
	2 Position Stayput illuminated selector actuator		
		White	P2ASL1-2P
		Green	P2ASL3-2P
		Red	P2ASL4-2P
	Filament Bulb	Amber	P2ASL5-2P
	6V to 130V AC/DC	Blue	P2ASL6-2P
		Clear	P2ASL7-2P
		Yellow	P2ASL8-2P
Direct Connection	**Please mention the voltage required after the ordering code**		
		White	P2ASLR1-2P
	Filament Bulb	Green	P2ASLR3-2P
	24V,48V,130V,230V AC/DC	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 illuminated selector actuator		
		White	P2ASL1-2PSR
	Filament Bulb	Green	P2ASL3-2PSR
	6V to 130V AC/DC	Red	P2ASL4-2PSR
		Amber	P2ASL5-2PSR
		Blue	P2ASL6-2PSR
		Clear	P2ASL7-2PSR
		Yellow	P2ASL8-2PSR
Direct Connection	**Please mention the voltage required after the ordering code**		
		White	P2ASLR1-2PSR
	ulb	Green	P2ASLR3-2PSR
	24V,48V,130V,230V AC/DC	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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ILLUMINATED SELECTOR ACTUATOR WITH LED

	TYPE	Colour of LED / Lens	ORDERING CODE
	2 Position Stayput illuminated selector actuator		
	Integral LED	White LED / White Lens	P2ASLR1L(S)-2P
	6V, 12V, 24V, 48V AC/DC	Green LED / Green Lens	P2ASLR3L-2P
	110VAC, 110VDC,	Red LED / Red Lens	P2ASLR4L-2P
	230VAC, 220VDC	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	White LED Bulb / White Lens	P2ASL1LB(S)-2P
	24V AC/DC,	Green LED Bulb / Green Lens	P2ASL3LB-2P
	110VAC, 110VDC	Red LED Bulb / Red Lens	P2ASL4LB-2P
	230VAC, 220VDC	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**		
	Integral LED	White LED / White Lens	P2ASLR1L(S)-2PSR
	6V, 12V, 24V, 48V AC/DC	Green LED / Green Lens	P2ASLR3L-2PSR
	110VAC, 110VDC,	Red LED / Red Lens	P2ASLR4L-2PSR
	230VAC, 220VDC	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	White LED Bulb / White Lens	P2ASL1LB(S)-2PSR
	24V AC/DC,	Green LED Bulb / Green Lens	P2ASL3LB-2PSR
	110VAC, 110VDC	Red LED Bulb / Red Lens	P2ASL4LB-2PSR
	230VAC, 220VDC	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**		

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ILLUMINATED SELECTOR WITH BULB

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

ILLUMINATED SELECTOR WITH LED

	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
Integral LED	**Please mention the voltage required after the ordering code**		
	Momentary/Stayput	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		
	Momentary/Stayput	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
	Please mention the voltage required after the ordering code		
	3 Position Illuminated Selector Actuator with LED Bulb		
	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
LED Bulb	**Please mention the voltage required after the ordering code**		
	Momentary / Stayput	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		
	Momentary / Stayput	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
	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	Red	P2ATL5 F3F4 (IO)
	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)
	24V,48V,130V,230V AC/DC	Green	
		Amber Lens	
Connection with Resistor	**Please mention the voltage required after the ordering code**		
	Twin Illuminated Double Flush, (IO) Mark		
	Filament Bulb	Red	P2ATL5 F3F4 (IO)
	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)
	24V,48V,130V,230V AC/DC	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	Green	P2ATLR5L F3P4 (IO)
	6V, 12V, 24V, 48V AC/DC	Red	
	110VAC, 110VDC,	Amber Lens / Amber LED	
	230VAC, 220VDC		
Integral LED	**Please mention the voltage required after the ordering code**		
	LED Bulb, BA9S type	Green	P2ATLR5LB F3P4 (IO)
	24V AC/DC,	Red	
	110VAC, 110VDC	Amber Lens / Amber LED	
	230VAC, 220VDC		
LED Bulb	**Please mention the voltage required after the ordering code**		
	Twin Illuminated Double Flush, (IO) Mark		
	Integral LED	Green	P2ATLR5L F3P4 (IO)
	6V, 12V, 24V, 48V AC/DC	Red	
	110VAC, 110VDC,	Amber Lens / Amber LED	
	230VAC, 220VDC		
Integral LED	**Please mention the voltage required after the ordering code**		
	LED Bulb, BA9S type	Green	P2ATLR5LB F3P4 (IO)
	24V AC/DC,	Red	
	110VAC, 110VDC	Amber Lens / Amber LED	
	230VAC, 220VDC		
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 BULB

	TYPE		COLOUR	ORDERING CODE
	PILOT LIGHTS WITH FILAMENT BULB			
			White	P2PLB1
	Filament Bulb		Green	P2PLB3
	6V to 130V AC/DC		Red	P2PLB4
			Amber	P2PLB5
			Blue	P2PLB6
			Clear	P2PLB7
			Yellow	P2PLB8
Direct Connection	Please mention the voltage required after the ordering code			
			White	P2PLBR1
	Fil. Bulb		Green	P2PLBR3
	24V,48V,130V,230V AC/DC		Red	P2PLBR4
			Amber	P2PLBR5
			Blue	P2PLBR6
			Clear	P2PLBR7
			Yellow	P2PLBR8
Connection with Resistor	Please mention the voltage required after the ordering code			
			White	P2PLBR1240AC
	Filament bulb		Green	P2PLBR3240AC
	230 V AC		Red	P2PLBR4240AC
			Amber	P2PLBR5240AC
			Blue	P2PLBR6240AC
			Clear	P2PLBR7240AC
			Yellow	P2PLBR8240AC
Connection with Resistor + Diode				
	Filament bulb			
	Pri. 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
	Pri. 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 of LED / Lens**	**ORDERING CODE**
	Pilot Light with Integral LED		
	Integral LED	White LED / White Lens	P2PLBR1L(S)
	6V, 12V, 24V, 48V AC/DC	Green LED / Green Lens	P2PLBR3L
	110VAC, 110VDC,	Red LED / Red Lens	P2PLBR4L
	230VAC, 220VDC	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	White LED Bulb / White Lens	P2PLBR1LF(S)
	24V, 110V, 230V, AC	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	White LED / White Lens	P2PLBR1LU(S)
	24V upto 240V AC/DC	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	White LED / White Lens	P2PLBR1L(S)
	415VAC	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	White LED / White Lens	P2PLBR1L(S)**TL
	24V AC/DC	Green LED / Green Lens	P2PLBR3L**TL
	110VAC, 110VDC,	Red LED / Red Lens	P2PLBR4L**TL
	230VAC, 220VDC	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 of LED / Lens	ORDERING CODE
	Pilot Light with LED Bulb			
	LED Bulb, BA9S type		White LED Bulb / White Lens	P2PLB1LB(S)
	24V AC/DC,		Green LED Bulb / Green Lens	P2PLB3LB
	110VAC, 110VDC		Red LED Bulb / Red Lens	P2PLB4LB
	230VAC, 220VDC		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	P2PLB1LB(S) XXX / YY
	110VAC	**06**	Green LED Bulb / Green Lens	P2PLB3LB XXX / YY
	110VAC	**12**	Red LED Bulb / Red Lens	P2PLB4LB XXX / YY
	110VAC	**24**	Amber LED Bulb / Amber Lens	P2PLB5LB XXX / YY
	Pri. Volt.	**Sec. Volt.**	Blue LED Bulb / Blue Lens	P2PLB6LB XXX / YY
	240VAC	**06**	White LED Bulb / Clear Lens	P2PLB7LB(S) XXX / YY
	240VAC	**12**	Yellow LED Bulb / Yellow Lens	P2PLB8LB XXX / YY
	240VAC	**24**		
Connection with			XXX - Primary Voltage	
Transformer			YY - Secondary Voltage	

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Control & Signalling Devices 22.5 Ø
PLASTIC SERIES

LED PILOT LIGHTS ECONOMY SERIES

	Type	Colour of LED / Lens	ORDERING CODE
	Integral LED		
	6V, 12V, 24V, 48V AC/DC	White LED / White Lens	3PLBR1L(S)
	110VAC, 110VDC,	Green LED / Green Lens	3PLBR3L
	230VAC, 220VDC	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	White LED / White Lens	3PLBR1LU(S)
	24V upto 240V AC/DC	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
	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		
	24VAC		
	110VAC	Red LED	3PLBR4LBZ
	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)	**S1**
	SILVER CONTACT	
	NORMALLY OPEN (NO)	**S1S**
	SILVER CONTACT	
	(BREAK BEFORE MAKE)	
	NORMALLY OPEN (NO)	**S1E**
	SILVER CONTACT	
	(MAKE BEFORE BREAK)	
	NORMALLY CLOSED (NC)	**S2**
	SILVER CONTACT	
	NORMALLY OPEN (NO)	**S3**
	GOLD CONTACT	
	NORMALLY CLOSED (NC)	**S4**
	GOLD CONTACT	
	BASE MOUNTING	
	NORMALLY OPEN (NO)	**S5**
	SILVER CONTACT	
	NORMALLY CLOSED (NC)	**S6**
	SILVER CONTACT	
	NORMALLY OPEN (NO)	**S7**
	GOLD CONTACT	
	NORMALLY CLOSED (NC)	**S8**
	GOLD CONTACT	

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 Flush-Red	1 NO 1 NC	P2PSTF210-F401-IO
Twin Pushbutton not marked Flush - Projecting	P2ATF3-P4	Flush-Green Proj-Red	1NO+1NC 1NO+1NC	P2PSTF311-P411
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

Pilo
witr type
for 2

20DC