

TEKNIC



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:

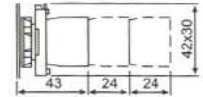
- Economy of space • Aesthetically elegant • SELF WIPING CONTACTS • Robust in materials of construction
- Larger operating surface than Ø 30.5 series • Simple to fix - screw driver is all that is required
- Safe in operation
 - Fixing method unaffected by excessive vibration-unit does not rotate
 - Protection 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.

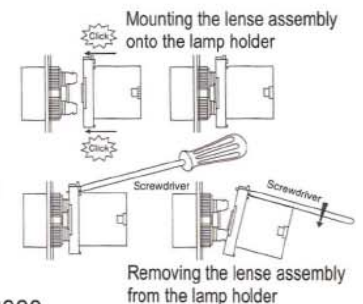
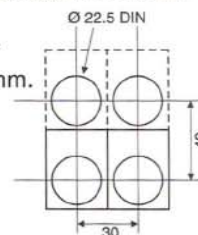
Pilot lights are available with built in transformers suitable for operating at 230, 110 volts AC input and 6 V, 12 V and 24V output.

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	:	AC 15 4 A, 415 V AC
As per IEC 947 - 5 - (1) 1990	:	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)	:	

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

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

*All actuators are supplied with fixing flange

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

*All actuators are supplied with fixing flange









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MUSHROOM HEAD ACTUATORS			
	TYPE	COLOUR	ORDERING CODE
		Black	P2AMJ2
	Momentary Ø 60mm	Green	P2AMJ3
		Red	P2AMJ4
		Blue	P2AMJ6
		Yellow	P2AMJ8
			
	Push Pull Ø 60 mm	Red	P2AMPPJ4
		Black	P2AMLJ2
	Latching Jumbo Ø 60mm	Red	P2AMLJ4
			
	Trigger type Press to Lock turn to release Ø 40 mm	Red	P2AMLT4
			
	Trigger type Press to Lock key to release Ø 40 mm	Red	P2AMLTKB4
*All actuators are supplied with fixing flange			

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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
	3 position MOMENTARY on left 	Black	P2AS2-3PSRL
	with ext. knob		P2AS2E-3PSRL











*All actuators are supplied with fixing flange

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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				
*All actuators are supplied with fixing flange				

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TWIN ACTUATORS



TYPE	COLOUR	ORDERING CODE
	Green	P2ATF3F4
	Red	
Double Flush w/o IO Mark	Yellow	P2ATF8F2
	Black	
	Green	P2ATF3F4(IO)
	Red	
Double Flush with IO Mark	Yellow	P2ATF8F2(IO)
	Black	
	Green	P2ATF3P4
1 Flush, 1 Projecting w/o IO Mark	Red	
	Yellow	P2ATF8P2
	Black	
1 Flush, 1 Projecting with IO Mark	Green	P2ATF3P4(IO)
	Red	
	Yellow	P2ATF8P2(IO)
	Black	
*All actuators are supplied with fixing flange		

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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	
		White	P2ALRF1 230V AC
		Green	P2ALRF3 230V AC
	Filament bulb	Red	P2ALRF4 230V AC
	230 V AC	Amber	P2ALRF5 230V AC
		Blue	P2ALRF6 230V AC
		Clear	P2ALRF7 230V AC
		Yellow	P2ALRF8 230V AC
	Connection with Resistor + Diode	Please mention the voltage required after the ordering code	

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ILLUMINATED ACTUATORS WITH LED			
	Type	Colour of LED / Lens	Ordering Code
	Illuminated Flush, Momentary		
		Yellow LED / White Lens	P2ALRF1L
	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
		Yellow LED / Clear Lens	P2ALRF7L
		White LED / Clear Lens	P2ALRF7L(S)
		Yellow LED / Yellow Lens	P2ALRF8L
Integral	Please mention the voltage required after the ordering code		
			
	LED Bulb	Yellow LED Bulb / White Lens	P2ALF1LB
	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
		Yellow LED Bulb / Clear Lens	P2ALF7LB
		White LED Bulb / Clear Lens	P2ALF7LB(S)
	Yellow LED Bulb / Yellow Lens	P2ALF8LB	
Bayonet Bulb	Please mention the voltage required after the ordering code		
			
		Yellow LED / White Lens	P2ALRF1LF
	Integral LED	White LED / White Lens	P2ALRF1LF(S)
	24V, 110V, 230V, AC	Green LED / Green Lens	P2ALRF3LF
		Red LED / Red Lens	P2ALRF4LF
		Amber LED / Amber Lens	P2ALRF5LF
		Blue LED / Blue Lens	P2ALRF6LF
		Yellow LED / Clear Lens	P2ALRF7LF
		White LED / Clear Lens	P2ALRF7LF(S)
	Yellow LED / Yellow Lens	P2ALRF8LF	
Flasher	Please mention the voltage required after the ordering code		

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ILLUMINATED MOMENTARY ACTUATORS WITH BULB			
	TYPE	COLOUR	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	
	Filament bulb	White	P2ALRP1 230V AC
	230 V AC	Green	P2ALRP3 230V AC
		Red	P2ALRP4 230V AC
		Amber	P2ALRP5 230V AC
		Blue	P2ALRP6 230V AC
		Clear	P2ALRP7 230V AC
		Yellow	P2ALRP8 230V AC
	Connection with Resistor + Diode		

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ILLUMINATED ACTUATORS WITH LED			
	TYPE	Colour of LED / Lens	ORDERING CODE
			
	Illuminated Projecting, Momentary		
		Yellow LED / White Lens	P2ALRP1L
		White LED / White Lens	P2ALRP1L(S)
		Green LED / Green Lens	P2ALRP3L
	6V to 230V AC,	Red LED / Red Lens	P2ALRP4L
	6V to 220V DC	Amber LED / Amber Lens	P2ALRP5L
		Blue LED / Blue Lens	P2ALRP6L
		Yellow LED / Clear Lens	P2ALRP7L
		White LED / Clear Lens	P2ALRP7L(S)
		Yellow LED / Yellow Lens	P2ALRP8L
	Integral	Please mention the voltage required after the ordering code	
		Yellow LED Bulb / White Lens	P2ALP1LB
		White LED Bulb / White Lens	P2ALP1LB(S)
		Green LED Bulb / Green Lens	P2ALP3LB
		Red LED Bulb / Red Lens	P2ALP4LB
	24V to 230V AC,	Amber LED Bulb / Amber Lens	P2ALP5LB
	24V to 220V DC	Blue LED Bulb / Blue Lens	P2ALP6LB
		Yellow LED Bulb / Clear Lens	P2ALP7LB
		White LED Bulb/ Clear Lens	P2ALP7LB(S)
		Yellow LED Bulb / Yellow Lens	P2ALP8LB
	Bayonet Bulb	Please mention the voltage required after the ordering code	
		Yellow LED / White Lens	P2ALRP1LF
		White LED / White Lens	P2ALRP1LF(S)
		Green LED / Green Lens	P2ALRP3LF
		Red LED / Red Lens	P2ALRP4LF
		Amber LED / Amber Lens	P2ALRP5LF
	110V AC , 240V AC	Blue LED / Blue Lens	P2ALRP6LF
		Yellow LED / Clear Lens	P2ALRP7LF
		White LED / Clear Lens	P2ALRP7LF(S)
		Yellow LED / Yellow Lens	P2ALRP8LF
	Flasher	Please mention the voltage required after the ordering code	







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ILLUMINATED SELECTOR WITH BULB			
	TYPE	COLOUR	ORDERING CODE
	2 Position Stayput illuminated selector actuator		
		White	P2ASL1-2P
	Filament bulb	Green	P2ASL3-2P
	6V to 130V AC/DC	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		
		White	P2ASLR1-2P
	Filament bulb	Green	P2ASLR3-2P
	24 V,48V,110V,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		
		White	P2ASLR1-2P 230V AC
	Filament bulb	Green	P2ASLR3-2P 230V AC
	230V AC	Red	P2ASLR4-2P 230V AC
		Amber	P2ASLR5-2P 230V AC
		Blue	P2ASLR6-2P 230V AC
		Clear	P2ASLR7-2P 230V AC
		Yellow	P2ASLR8-2P 230V AC
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	
				
	2 Position Stayput illuminated selector actuator			
			Yellow LED / White Lens	P2ASLR1L-XXXXX
	Integral LED		White LED / White Lens	P2ASLR1L(S)-XXXXX
	6V, 12V, 24V, 48V AC/DC		Green LED / Green Lens	P2ASLR3L-XXXXX
	110VAC, 110VDC,		Red LED / Red Lens	P2ASLR4L-XXXXX
	230VAC, 220VDC		Amber LED / Amber Lens	P2ASLR5L-XXXXX
			Blue LED / Blue Lens	P2ASLR6L-XXXXX
			Yellow LED / Clear Lens	P2ASLR7L-XXXXX
			White LED / Clear Lens	P2ASLR7L(S)-XXXXX
			Yellow LED / Yellow Lens	P2ASLR8L-XXXXX
Please mention the voltage required after the ordering code				
			Yellow LED Bulb / White Lens	P2ASL1LB-XXXXX
	LED Bulb		White LED Bulb / White Lens	P2ASL1LB(S)-XXXXX
	BA9S type		Green LED Bulb / Green Lens	P2ASL3LB-XXXXX
			Red LED Bulb / Red Lens	P2ASL4LB-XXXXX
			Amber LED Bulb / Amber Lens	P2ASL5LB-XXXXX
			Blue LED Bulb / Blue Lens	P2ASL6LB-XXXXX
	24V AC/DC,		Yellow LED Bulb / Clear Lens	P2ASL7LB-XXXXX
	110VAC, 110VDC		White LED Bulb / Clear Lens	P2ASL7LB(S)-XXXXX
	230VAC, 220VDC		Yellow LED Bulb / Yellow Lens	P2ASL8LB-XXXXX
Please mention the voltage required after the ordering code				
			Yellow LED / White Lens	P2ASLR1LF-XXXXX
	Integral LED		White LED / White Lens	P2ASLR1LF(S)-XXXXX
	24V, 110V, 230V, AC		Green LED / Green Lens	P2ASLR3LF-XXXXX
			Red LED / Red Lens	P2ASLR4LF-XXXXX
			Amber LED / Amber Lens	P2ASLR5LF-XXXXX
			Blue LED / Blue Lens	P2ASLR6LF-XXXXX
			Yellow LED / Clear Lens	P2ASLR7LF-XXXXX
			White LED / Clear Lens	P2ASLR7LF(S)-XXXXX
			Yellow LED / Yellow Lens	P2ASLR8LF-XXXXX
Please mention the voltage required after the ordering code				
1		Stayput		XXXXX 2P
2		Spring return		2PSR
XXXXX - Denotes Standard Execution				

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ILLUMINATED SELECTOR WITH BULB

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

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ILLUMINATED SELECTOR WITH LED

	TYPE	Colour of LED / Lens	ORDERING CODE
	3 Position Illuminated Selector Actuator		
		Yellow LED / White Lens	P2ASLR1L-XXXXX
	Integral LED	White LED / White Lens	P2ASLR1L(S)-XXXXX
	6V, 12V, 24V, 48V AC/DC	Green LED / Green Lens	P2ASLR3L-XXXXX
	110VAC, 110VDC,	Red LED / Red Lens	P2ASLR4L-XXXXX
	230VAC, 220VDC	Amber LED / Amber Lens	P2ASLR5L-XXXXX
		Blue LED / Blue Lens	P2ASLR6L-XXXXX
		Yellow LED / Clear Lens	P2ASLR7L-XXXXX
		White LED / Clear Lens	P2ASLR7L(S)-XXXXX
	Integral LED	Yellow LED / Yellow Lens	P2ASLR8L-XXXXX
Please mention the voltage required after the ordering code			
		Yellow LED Bulb / White Lens	P2ASL1LB-XXXXX
	LED Bulb	White LED Bulb / White Lens	P2ASL1LB(S)-XXXXX
	BA9S type	Green LED Bulb / Green Lens	P2ASL3LB-XXXXX
	24V AC/DC,	Red LED Bulb / Red Lens	P2ASL4LB-XXXXX
	110VAC, 110VDC	Amber LED Bulb / Amber Lens	P2ASL5LB-XXXXX
	230VAC, 220VDC	Blue LED Bulb / Blue Lens	P2ASL6LB-XXXXX
		Yellow LED Bulb / Clear Lens	P2ASL7LB-XXXXX
		White LED Bulb / Clear Lens	P2ASL7LB(S)-XXXXX
	LED Bulb	Yellow LED Bulb / Yellow Lens	P2ASL8LB-XXXXX
Please mention the voltage required after the ordering code			
		Yellow LED / White Lens	P2ASLR1LF-XXXXX
	Integral LED	White LED / White Lens	P2ASLR1LF(S)-XXXXX
	24V, 110V, 230V, AC	Green LED / Green Lens	P2ASLR3LF-XXXXX
		Red LED / Red Lens	P2ASLR4LF-XXXXX
		Amber LED / Amber Lens	P2ASLR5LF-XXXXX
		Blue LED / Blue Lens	P2ASLR6LF-XXXXX
		Yellow LED / Clear Lens	P2ASLR7LF-XXXXX
		White LED / Clear Lens	P2ASLR7LF(S)-XXXXX
	Flasher	Yellow LED / Yellow Lens	P2ASLR8LF-XXXXX
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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TWIN ILLUMINATED ACTUATORS WITH BULB			
	Type	COLOUR	ORDERING CODE
	Illuminated Twin Flush (IO) Marked		
	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		
	24V,48V,130V,230V AC/DC	Red	P2ATLR5 F3F4 (IO)
		Green	
		Amber Lens	
Connection with Resistor	Please mention the voltage required after the ordering code		
	Filament bulb		
	230 V AC	Red	P2ATLR5 F3F4 (IO) 230V AC
		Green	
		Amber Lens	
Connection with Resistor + Diode			
	Illuminated 1 Flush, 1 Projecting (IO) Marked		
	Filament Bulb		
	6V to 130V AC/DC	Green	P2ATL5 F3P4 (IO)
		Red	
		Amber Lens	
Direct Connection	Please mention the voltage required after the ordering code		
	Filament Bulb		
	24V,48V,130V,230V AC/DC	Green	P2ATLR5 F3P4 (IO)
		Red	
		Amber Lens	
Connection with Resistor	Please mention the voltage required after the ordering code		
	Filament bulb		
	230 V AC	Green	P2ATLR5 F3P4 (IO) 230V 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
	Twin Illuminated 1 Flush, 1 Projecting		
	Integral LED	Green	P2ATLR5L F3P4 (IO)
	6V, 12V, 24V, 48V AC/DC	Red	
	110VAC, 110VDC, 230VAC, 220VDC	Amber Lens / Amber LED	
Integral	Please mention the voltage required after the ordering code		
	LED Bulb	Green	P2ATLR5LB F3P4 (IO)
	BA9S type	Red	
	24V AC/DC, 110VAC, 110VDC 230VAC, 220VDC	Amber Lens / Amber LED	
Bayonet Bulb	Please mention the voltage required after the ordering code		
	Integral LED	Green	P2ATLR5LF3P4 (IO)F
	24V, 110V, 230V, AC	Red	
		Amber Lens / Amber LED	
Flasher	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 Flush (IO) Marked		
	Integral LED	Green	P2ATLR5L F3F4 (IO)
	6V, 12V, 24V, 48V AC/DC	Red	
	110VAC, 110VDC, 230VAC, 220VDC	Amber Lens / Amber LED	
Integral	Please mention the voltage required after the ordering code		
	LED Bulb BA9S type	Green	P2ATLR5LB F3F4 (IO)
	24V AC/DC,	Red	
	110VAC, 110VDC 230VAC, 220VDC	Amber Lens / Amber LED	
Bayonet Bulb	Please mention the voltage required after the ordering code		
	Integral LED	Green	P2ATLR5LF F3F4 (IO)
	24V, 110V, 230V, AC	Red	
		Amber Lens / Amber LED	
Flasher	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 Light			
 Direct Connection		White	P2PLB1	
	Filament Bulb	Green	P2PLB3	
	6V to 130V AC/DC	Red	P2PLB4	
		Amber	P2PLB5	
		Blue	P2PLB6	
		Clear	P2PLB7	
		Yellow	P2PLB8	
 Connection with Resistor		White	P2PLBR1	
	Filament Bulb	Green	P2PLBR3	
	24V,48V,130V,230V AC/DC	Red	P2PLBR4	
		Amber	P2PLBR5	
		Blue	P2PLBR6	
		Clear	P2PLBR7	
		Yellow	P2PLBR8	
 Connection with Resistor + Diode		White	P2PLBR1240AC	
	Filament bulb	Green	P2PLBR3240AC	
	230 V AC	Red	P2PLBR4240AC	
		Amber	P2PLBR5240AC	
		Blue	P2PLBR6240AC	
		Clear	P2PLBR7240AC	
		Yellow	P2PLBR8240AC	
 Connection with Transformer	Filament bulb	White	P2PLBT1XX/YYY	
		Green	P2PLBT3XX/YYY	
		Red	P2PLBT4XX/YYY	
	SEC	PRI	Amber	P2PLBT5XX/YYY
	6	110	Blue	P2PLBT6XX/YYY
	12		Clear	P2PLBT7XX/YYY
	24	240	Yellow	P2PLBT8XX/YYY
			XX - Secondary Voltage 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
	Pilot Light		
		Yellow LED / White Lens	P2PLBR1L
	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
		Yellow LED / Clear Lens	P2PLBR7L
		White LED / Clear Lens	P2PLBR7L(S)
		Yellow LED / Yellow Lens	P2PLBR8L
	Integral	Please mention the voltage required after the ordering code	
		Yellow LED Bulb / White Lens	P2PLB1LB
	LED Bulb	White LED Bulb / White Lens	P2PLB1LB(S)
	BA9S type	Green LED Bulb / Green Lens	P2PLB3LB
	24V AC/DC,	Red LED Bulb / Red Lens	P2PLB4LB
	110VAC, 110VDC	Amber LED Bulb / Amber Lens	P2PLB5LB
	230VAC, 220VDC	Blue LED Bulb / Blue Lens	P2PLB6LB
		Yellow LED Bulb / Clear Lens	P2PLB7LB
		White LED Bulb / Clear Lens	P2PLB7LB(S)
		Yellow LED Bulb / Yellow Lens	P2PLB8LB
	Bayonet Bulb	Please mention the voltage required after the ordering code	
		Yellow LED / White Lens	P2PLBR1LF
	Integral LED	White LED / White Lens	P2PLBR1LF(S)
	24V, 110V, 230V, AC	Green LED / Green Lens	P2PLBR3LF
		Red LED / Red Lens	P2PLBR4LF
		Amber LED / Amber Lens	P2PLBR5LF
		Blue LED / Blue Lens	P2PLBR6LF
		Yellow LED / Clear Lens	P2PLBR7LF
		White LED / Clear Lens	P2PLBR7LF(S)
		Yellow LED / Yellow Lens	P2PLBR8LF
	Flasher	Please mention the voltage required after the ordering code	
		Yellow LED / White Lens	P2PLBR1LU
	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
		Yellow LED / Clear Lens	P2PLBR7LU
		White LED / Clear Lens	P2PLBR7LU(S)
		Yellow LED / Yellow Lens	P2PLBR8LU
	Integral		



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Control & Signalling Devices 22.5 Ø PLASTIC SERIES

LED PILOT LIGHTS ECONOMIC SERIES			
	Type	Colour of LED / Lens	ORDERING CODE
	Integral LED	Yellow LED / White Lens	3PLBR1L
	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
		Yellow LED / Clear Lens	3PLBR7L
		White LED / Clear Lens	3PLBR7L(S)
		Yellow LED / Yellow Lens	3PLBR8L
	Please mention the voltage required after the ordering code		
	Integral LED	Yellow LED / White Lens	3PLBR1LU
	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
		Yellow LED / Clear Lens	3PLBR7LU
		White LED / Clear Lens	3PLBR7LU(S)
		Yellow LED / Yellow Lens	3PLBR8LU

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Control & Signalling Devices 22.5 Ø PLASTIC SERIES

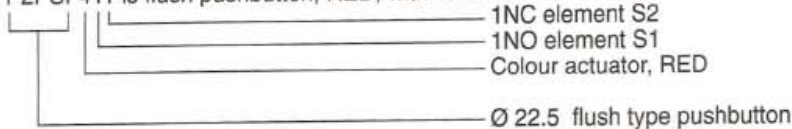
CONTACT ELEMENTS					
	TYPE		ORDERING CODE		
	PANEL MOUNTING				
	NORMALLY OPEN SILVER CONTACTS		S1		
	NORMALLY CLOSED SILVER CONTACTS		S2		
	NORMALLY OPEN GOLD CONTACTS		S3		
	NORMALLY CLOSED GOLD CONTACTS		S4		
	BASE MOUNTING				
	NORMALLY OPEN SILVER CONTACTS		S5		
	NORMALLY CLOSED SILVER CONTACTS		S6		
	NORMALLY OPEN GOLD CONTACTS		S7		
	NORMALLY CLOSED GOLD CONTACTS		S8		
	SPECIAL PURPOSE ACTUATORS				
		TYPE		COLOUR	ORDERING CODE
		Flush Relay		White	P2AF1RR
Reset Actuators		Black	P2AF2RR		
		Green	P2AF3RR		
		Red	P2AF4RR		
		Blue	P2AF6RR		
		Yellow	P2AF8RR		
*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.
 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



Accessories and spares

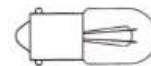
Legend plates

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**



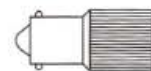
Filament bulb

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



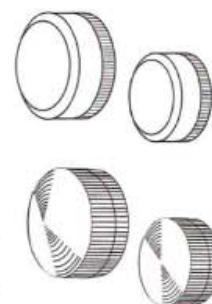
LED bulb

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



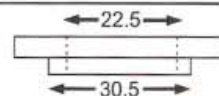
Lenses

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



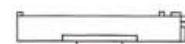
Adaptor for fixing Ø 22.5 devices in Ø 30.5 cutout.

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



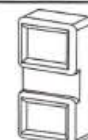
Boot for twin actuator

Colour of Boot : Clear
 Type No : 2ATBT7



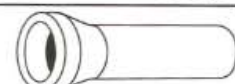
Boot for twin illuminated actuator

Colour of Boot : Clear
 Type No : 2ATLBT7



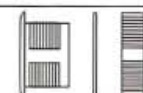
Bulb extractor

Type No. : 2BA9SE



Blanking plug for Ø 22.5 hole, black

Type No. : 2BP2



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Control & Signalling Devices 22.5 Ø PLASTIC SERIES

Accessories and spares					
Standard Legend Plates					
1 POSITION			2 POSITION		
LEGEND	ORDERING CODE	LEGEND		ORDERING CODE	
START	2LP01	START	STOP	2LP28	
STOP	2LP02	UP	DOWN	2LP29	
FORWARD	2LP03	ON	OFF	2LP30	
REVERSE	2LP04	REV.	FWD.	2LP31	
UP	2LP05	AUTO	HAND	2LP32	
DOWN	2LP06	LOCAL	REMOTE	2LP33	
OPEN	2LP07	I	II	2LP34	
CLOSE	2LP08	O	I	2LP35	
AUTO	2LP09				
HAND	2LP10				
SLOW	2LP11	3 POSITION			
FAST	2LP12	LEGEND			ORDERING CODE
RESET	2LP13	HAND	O	AUTO	2LP36
INCH	2LP14	SLOW	OFF	FAST	2LP37
ON	2LP15	UP	OFF	DOWN	2LP38
OFF	2LP16	I	O	II	2LP39
RIGHT	2LP17				
LEFT	2LP18				
TRIP	2LP19	OTHERS			
POWER ON	2LP20	LEGEND			ORDERING CODE
LOCAL	2LP21	BLANK ALUMINUM			2LP40
REMOTE	2LP22	EMERGENCY STOP (60mm)			2LP41
TEST	2LP23				
RUN	2LP24				
R PHASE	2LP25				
Y PHASE	2LP26				
B PHASE	2LP27				
Legend Plates (Aluminum) from 2LP01 to 2LP40				Legend Plate 2LP41 (Plastic) Yellow with Black characters for EMERGENCY STOP	

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Control & Signalling Devices 22.5 Ø PLASTIC SERIES

Bulbs							
Filament Bulbs type BA9S							
Voltage:	6	12	24	30	48	60	130
Watts :	1	2	2	2	2	2	2.6
Multichip LED type BA9S							
Colour:	White	Green	Red	Amber	Blue	Yellow	
Code :	MCB91	MCB93	MCB94	MCB95	MCB96	MCB98	
Please put supply voltage 24 / 48 / 110AC / 110DC / 230AC / 220 DC after the part no. of LED bulbs							

Lenses							
Colour of Lens:	TransWhite	Green	Red	Amber	Blue	Clear	Yellow
For Pilot lights with Filament Bulb	2PLL1	2PLL3	2PLL4	2PLL5	2PLL6	2PLL7	2PLL8
For Pilot lights with LED	2PLL1L	2PLL3L	2PLL4L	2PLL5L	2PLL6L	2PLL7L	2PLL8L
For Illuminated Actuators (Fil. bulb)	2LAL1	2LAL3	2LAL4	2LAL5	2LAL6	2LAL7	2LAL8
Illuminated Actuators LED	2LAL1L	2LAL3L	2LAL4L	2LAL5L	2LAL6L	2LAL7L	2LAL8L

Boots							
Boots for non-illuminated flush actuators							
Colour of Boot:	Transparent						
Type No.	2BT7						

Boots for booted actuators							
Colour of Boot	Black	Green	Red	Blue	Yellow		
Type No.	2BT2	2BT3	2BT4	2BT6	2BT8		

Boot for illuminated flush actuators							
Colour of Boot	Transparent						
Type No.	2ALBT7						

Boot for twin non-illuminated actuators							
Colour of Boot	Transparent						
Type No.	2ATBT7						

Boot for twin illuminated actuators							
Colour of Boot:	Transparent						
Type No.	2ATLBT7						

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Control & Signalling Devices 22.5 Ø PLASTIC SERIES

Bulb extractor

Type No.: 2BA9SE

Blanking plug for 22.5 Ø hole, Black

Type No.: 2BP2

Padlock

Padlock for mushroom actuator : Type No. : 2PAM

Padlock for projecting actuator : Type No : 2PAP
--

Fixing Flange

Type No. : 2BRK

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

Type No. : 2ADP

Push Push Mechanism to convert momentary actuators into latching type
--

Type No. : 2PPM

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

TEKNIC

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