

TEKNIC



Control and Signaling Devices Ø 22.5 Metal Series



Control and signalling devices Ø 22.5

Salient features

This range of Ø 22.5 pushbuttons, selector switches, illuminated switches, illuminated selector switches and pilot lights have been designed to provide the following salient features:

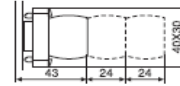
- Economy of space
- Aesthetically elegant
- SELF WIPING CONTACT
- Robust in materials of construction
- Simple to fix - screw driver is all that required
- Safe in operation
- Fixing method unaffected by excessive vibration-unit does not rotate
- Very good flame resistance
- Protection against electric shock (unit earthed)
- Shrouded terminals

Actuators

The circular actuators have chrome plated metal bezels, and are interchangeable on the different types of contact elements.

Contact elements

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



Illuminated pushbuttons and pilot lights

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

Supply voltage for direct connection without series resistor : 6V-130V

Supply voltage through series resistor : 12V-415V

Supply voltage through series resistor and diode : 230V AC

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

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

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

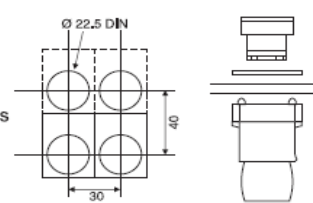
Terminals

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

Fixing

The control devices Ø 22.5 can be fixed in any position on panels of 1 to 6 mm thickness. We recommend minimum fixing centers of 30 mm X 40 mm. However, the dimensions and configuration should be decided on the basis of the application. The actuators and the lens assemblies lock on to the holding bracket using a bayonet type of fixing which enables a simple and fast assembly. The complete assembly is locked into position on the panel by two M4 pointed screws on the bracket, tightened equally from the rear. The screws should be tightened adequately to such an extent as to pierce through the paint on the panel from inside. These screws also ensure the earthing of the unit.

Fixing arrangement



Electrical and mechanical characteristics

Environment

Standard conformity	: CSA - C22.2 No. 14-95, UL508, IEC 947 - 5 (1) 1990, IS 13947
Approvals	: ASTA UK certified as per IEC 947 - 5 - (1) 1990 CSA - C22.2 No. 14-95, UL508
Degree of protection	: IP 65 as per IEC 529, NEMA 4X, 12 as per UL 50
Ambient	: - 25°C to + 70°C
Operating position	: All positions

Contact Block

Rated insulation voltage	: 500 V														
Rated thermal current	: 10 A														
Contact operation	: Self wiping, slow break NO or NC														
Make and break capacity															
As per IEC 947 - 5 - (1) 1990	: AC 15 4 A, 415V AC : DC 13 0.5 A, 110V DC : A 600 Q600														
As per CSA - C22.2 No. 14-95, UL508,															
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														
Electric rating															
(for 1 million operation cycles, operation at 3600 cycles per hour, load factor 0.5)	: AC 15 <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>V</td> <td>24</td> <td>120</td> <td>230</td> </tr> <tr> <td>A</td> <td>5</td> <td>4</td> <td>3</td> </tr> </table> DC 13 <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>V</td> <td>24</td> <td>110</td> </tr> <tr> <td>A</td> <td>0.5</td> <td>0.2</td> </tr> </table>	V	24	120	230	A	5	4	3	V	24	110	A	0.5	0.2
V	24	120	230												
A	5	4	3												
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 mm ² , max. 2 x 1.5 mm ² or 1 x 2.5 mm ²

Control and signalling devices Ø 22.5

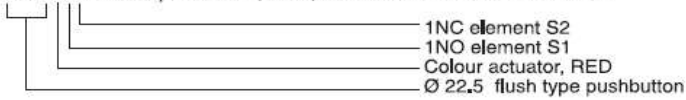
Ordering instructions

1. Actuators, illuminated actuators, contact elements, lense assemblies & pilot lights can all be ordered separately or in combination.

2. The type numbers of contact elements are : NO: Actuator mounting : S1, S3 Note:
 Individual mounting : S5, S7 S3, S4, S7, S8 are gold plated contacts
 NC: Actuator mounting : S2, S4 suitable for low voltage, low current
 Individual mounting : S6, S8 switching circuits < 25 mA

3. Some examples of type numbers:

Actuator : Type 2AF3 is flush actuator, GREEN
 Pilot light : Type 2PLB4 is pilot light without series resistor, RED
 Complete pushbutton : Type 2PSF411 is flush pushbutton, RED, with 1NO+1NC contact elements



Accessories and spares

Legend plates

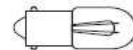
Legend plates 30 x 40 mm are supplied with the following standard texts:
 START FORWARD UP OPEN AUTO SLOW RESET ON RIGHT TRIP
 STOP REVERSE DOWN CLOSE HAND FAST INCH OFF LEFT POWER ON
 Legend plate Ø 60 mm yellow with black characters for **EMERGENCY STOP**



Filament bulb

Filament bulb type BA9S, OAL 28mm

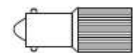
Voltage	: 6	12	24	30	48	60	130
Watts	: 1	2	2	2	2	2	2,6



LED bulb

LED multichip bulb type BA9S, OAL 28mm

Colour	: White	Green	Red	Amber	Blue	Yellow	V	W
Type No.	: MCB9124	MCB9324	MCB9424	MCB9524	MCB9624	MCB9824	24	0,5
	MCB91110	MCB93110	MCB94110	MCB95110	MCB96110	MCB98110	110	1,0
	MCB91230	MCB93230	MCB94230	MCB95230	MCB96230	MCB98230	230	1,0



Lenses

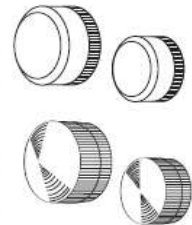
Colour of lense : Translucent White Green Red Amber Blue Clear Yellow

For pilot lights with filament bulb 2PLL1 2PLL3 2PLL4 2PLL5 2PLL6 2PLL7 2PLL8

For illuminated actuators with filament bulb (flush/projecting) 2LAL1 2LAL3 2LAL4 2LAL5 2LAL6 2LAL7 2LAL8

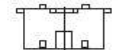
For pilot lights with LED 2PLL1L 2PLL3L 2PLL4L 2PLL5L 2PLL6L 2PLL7L 2PLL8L

For illuminated actuators with LED (flush/projecting) 2LAL1L 2LAL3L 2LAL4L 2LAL5L 2LAL6L 2LAL7L 2LAL8L



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

Type No.: 2PPM



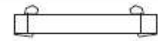
Adaptor for fixing Ø 22.5 devices in Ø 30.5 cutout.

Type No. : 2ADP



Fixing flange

Type No. : 2BRK



Padlock

For mushroom actuator : type no. 2PAM

For projecting actuator : type no. 2PAP



Boots for booted actuators

Colour of Boot : Black Green Red Blue Yellow
 Type No : 2BT2 2BT3 2BT4 2BT6 2BT8



Boot for non ill. flush actuator

Colour of Boot : Clear
 Type No : 2BT7



Boot for flush / proj. ill actuator

Colour of Boot : Clear
 Type No : 2ALBT7



Boot for twin actuator

Colour of Boot : Clear
 Type No : 2ATBT7



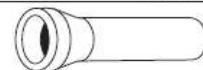
Boot for twin ill. actuator

Colour of Boot : Clear
 Type No : 2ATLBT7



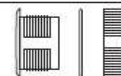
Bulb extractor

Type No. : 2BA9SE



Blanking plug for Ø 22.5 hole, black




Type No. : 2BP2



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MOMENTARY ACTUATORS

	TYPE	COLOUR	ORDERING CODE	
	Flush	White	2AF1	
		Black	2AF2	
		Green	2AF3	
		Red	2AF4	
		Blue	2AF6	
		Yellow	2AF8	
	Flush with arrow marking	White	2AF1A	
		Black	2AF2A	
		Green	2AF3A	
		Red	2AF4A	
		Blue	2AF6A	
		Yellow	2AF8A	
	Projecting	White	2AP1	
		Black	2AP2	
		Green	2AP3	
		Red	2AP4	
		Blue	2AP6	
		Yellow	2AP8	
	Flush Relay Reset	White	2AF1RR	
		Black	2AF2RR	
		Green	2AF3RR	
		Red	2AF4RR	
		Blue	2AF6RR	
		Yellow	2AF8RR	
	Recess head	White	2AF1RH	
		Black	2AF2RH	
		Green	2AF3RH	
		Red	2AF4RH	
		Blue	2AF6RH	
		Yellow	2AF8RH	
	Booted	Black	2AB2	
		Green	2AB3	
		Red	2AB4	
		Blue	2AB6	
		Yellow	2AB8	

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MUSHROOM ACTUATORS				
	TYPE	COLOUR	ORDERING CODE	
		Black	2AM2	
	Momentary Ø 40mm	Green	2AM3	
		Red	2AM4	
		Blue	2AM6	
		Yellow	2AM8	
				
	Latching Ø 30mm	Black	2AMLS2	
		Red	2AMLS4	
				
	Latching Ø 40mm	Black	2AML2	
		Red	2AML4	
				
	Push-Pull Ø 40mm	Black	2AMPP2	
		Red	2AMPP4	
				
	Latching with Key Ø 40mm	Black	2AMLKB2	
		Red	2AMLKB4	

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MUSHROOM ACTUATORS				
	TYPE	COLOUR	ORDERING CODE	
				
	Latching Trigger	Black	2AMLT2	
	Ø 40mm	Red	2AMLT4	
				
	Latching Trigger with key Ø 40mm	Black	2AMLTKB2	
		Red	2AMLTKB4	
				
	Latching	Black	2AMLJ2	
	Ø 60mm	Red	2AMLJ4	
				
	Push-Pull	Black	2AMPPJ2	
	Ø 60mm	Red	2AMPPJ4	
		Black	2AMJ2	
	Momentary	Green	2AMJ3	
	Ø 60mm	Red	2AMJ4	
		Blue	2AMJ6	
		Yellow	2AMJ8	

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SELECTOR ACTUATORS

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

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KEY SELECTOR



	TYPE		COLOUR	ORDERING CODE	
	2 POSITION		Black	2AK2-2PB	
	Stayput				
				2AK2-2PO	
				2AK2-2PI	
	Spring Return		Black	2AK2-2POSR	
	3 POSITION		Black	2AK2-3PA	
	Stayput				
				2AK2-3PB	
				2AK2-3PC	
	Spring Return		Black	2AK2-3PSR	
	Spring Return right to centre		Black	2AK2-3PSRR	
	Spring Return left to centre		Black	2AK2-3PSRL	
* X stands for position in which key is removable					

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TWIN ACTUATORS				
	TYPE	COLOUR	ORDERING CODE	
		Green	2ATF3F4	
	Double Flush	Red		
	w/o IO Mark	Yellow	2ATF8F2	
		Black		
		Green	2ATF3F4(IO)	
	Double Flush	Red		
	with IO Mark	Yellow	2ATF8F2(IO)	
		Black		
		Green	2ATF3P4	
	1 Flush,	Red		
	1 Projecting	Yellow	2ATF8P2	
	w/o IO Mark	Black		
		Green	2ATF3P4(IO)	
	1 Flush,	Red		
1 Projecting	Yellow	2ATF8P2(IO)		
with IO Mark	Black			

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ILLUMINATED ACTUATOR WITH FILAMENT BULB						
	TYPE	COLOUR	ORDERING CODE			
Illuminated Flush, Momentary						
		White	2ALF1			
	Filament Bulb		Green	2ALF3		
	6V to 130V AC/DC		Red	2ALF4		
		Amber	2ALF5			
		Blue	2ALF6			
		Clear	2ALF7			
		Yellow	2ALF8			
	Direct Connection	Please mention the voltage required after the ordering code				
		White	2ALRF1			
	Filament Bulb		Green	2ALRF3		
	24V, 48V, 110V and 230 V		Red	2ALRF4		
	AC/DC		Amber	2ALRF5		
		Blue	2ALRF6			
		Clear	2ALRF7			
		Yellow	2ALRF8			
	Connection with Resistor	Please mention the voltage required after the ordering code				
Illuminated Projecting, Momentary						
		White	2ALP1			
	Filament Bulb		Green	2ALP3		
	6V to 130V AC/DC		Red	2ALP4		
		Amber	2ALP5			
		Blue	2ALP6			
		Clear	2ALP7			
		Yellow	2ALP8			
	Direct Connection	Please mention the voltage required after the ordering code				
		White	2ALRP1			
	Filament Bulb		Green	2ALRP3		
	24V, 48V, 110V and 230 V		Red	2ALRP4		
	AC/DC		Amber	2ALRP5		
		Blue	2ALRP6			
		Clear	2ALRP7			
		Yellow	2ALRP8			
	Connection with Resistor	Please mention the voltage required after the ordering code				

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ILLUMINATED FLUSH ACTUATOR WITH LED

	TYPE	COLOUR of LED / LENS	ORDERING CODE			
Illuminated Flush actuator, Momentary						
		Yellow LED / White Lens	2ALRF1L			
	Integral LED	White LED / White Lens	2ALRF1L(S)			
	6V, 12V, 24V, 48V AC/DC	Green LED / Green Lens	2ALRF3L			
	110VAC, 110VDC,	Red LED / Red Lens	2ALRF4L			
	230VAC, 220VDC	Amber LED / Amber Lens	2ALRF5L			
		Blue LED / Blue Lens	2ALRF6L			
		Yellow LED / Clear Lens	2ALRF7L			
		White LED / Clear Lens	2ALRF7L(S)			
		Yellow LED / Yellow Lens	2ALRF8L			
Integral LED	Please mention the voltage required after the ordering code					
		Yellow LED Bulb / White Lens	2ALF1LB			
	LED Bulb, BA9S type	White LED Bulb / White Lens	2ALF1LB(S)			
	24V AC/DC,	Green LED Bulb / Green Lens	2ALF3LB			
	110VAC, 110VDC	Red LED Bulb / Red Lens	2ALF4LB			
	230VAC, 220VDC	Amber LED Bulb / Amber Lens	2ALF5LB			
		Blue LED Bulb / Blue Lens	2ALF6LB			
		Yellow LED Bulb / Clear Lens	2ALF7LB			
		White LED Bulb/ Clear Lens	2ALF7LB(S)			
		Yellow LED Bulb / Yellow Lens	2ALF8LB			
LED Bulb	Please mention the voltage required after the ordering code					
		White LED / White Lens	2ALRF1LF			
	Integral LED	White LED / White Lens	2ALRF1L(S)F			
	24V, 110V, 230V, AC	Green LED / Green Lens	2ALRF3LF			
		Red LED / Red Lens	2ALRF4LF			
		Amber LED / Amber Lens	2ALRF5LF			
		Blue LED / Blue Lens	2ALRF6LF			
		Yellow LED / Clear Lens	2ALRF7LF			
		White LED / Clear Lens	2ALRF7L(S)F			
		Yellow LED / Yellow Lens	2ALRF8LF			
Flasher with Integral LED	Please mention the voltage required after the ordering code					
Illuminated Projection Actuator, Momentary						
		Yellow LED / White Lens	2ALRP1L			
	Integral LED	White LED / White Lens	2ALRP1L(S)			
	6V, 12V, 24V, 48V AC/DC	Green LED / Green Lens	2ALRP3L			
	110VAC, 110VDC,	Red LED / Red Lens	2ALRP4L			
	230VAC, 220VDC	Amber LED / Amber Lens	2ALRP5L			
		Blue LED / Blue Lens	2ALRP6L			
		Yellow LED / Clear Lens	2ALRP7L			
		White LED / Clear Lens	2ALRP7L(S)			
		Yellow LED / Yellow Lens	2ALRP8L			
Integral LED	Please mention the voltage required after the ordering code					
		Yellow LED Bulb / White Lens	2ALP1LB			
	LED Bulb, BA9S type	White LED Bulb / White Lens	2ALP1LB(S)			
	24V AC/DC,	Green LED Bulb / Green Lens	2ALP3LB			
	110VAC, 110VDC	Red LED Bulb / Red Lens	2ALP4LB			
	230VAC, 220VDC	Amber LED Bulb / Amber Lens	2ALP5LB			
		Blue LED Bulb / Blue Lens	2ALP6LB			
		Yellow LED Bulb / Clear Lens	2ALP7LB			
		White LED Bulb/ Clear Lens	2ALP7LB(S)			
		Yellow LED Bulb / Yellow Lens	2ALP8LB			
LED Bulb	Please mention the voltage required after the ordering code					
		White LED / White Lens	2ALRP1LF			
	Integral LED	White LED / White Lens	2ALRP1L(S)P			
	24V, 110V, 230V, AC	Green LED / Green Lens	2ALRP3LF			
		Red LED / Red Lens	2ALRP4LF			
		Amber LED / Amber Lens	2ALRP5LF			
		Blue LED / Blue Lens	2ALRP6LF			
		Yellow LED / Clear Lens	2ALRP7LF			
		White LED / Clear Lens	2ALRP7L(S)P			
		Yellow LED / Yellow Lens	2ALRP8LF			
Flasher with Integral LED	Please mention the voltage required after the ordering code					

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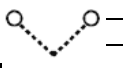

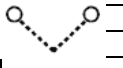



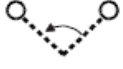
Control & Signalling Devices 22.5 Ø
METALLIC SERIES

ILLUMINATED SELECTOR WITH FILAMENT BULB				
	TYPE	COLOUR	ORDERING CODE	
2 Position Stayput illuminated selector actuator				
		White	2ASL1-2P	
	Filament bulb	Green	2ASL3-2P	
	6V to 130V AC/DC	Red	2ASL4-2P	
		Amber	2ASL5-2P	
		Blue	2ASL6-2P	
		Clear	2ASL7-2P	
		Yellow	2ASL8-2P	
	Direct Connection	Please mention the voltage required after the ordering code		
		White	2ASLR1-2P	
	Filament bulb	Green	2ASLR3-2P	
	24 V,48V,110V,230V AC/DC	Red	2ASLR4-2P	
		Amber	2ASLR5-2P	
		Blue	2ASLR6-2P	
		Clear	2ASLR7-2P	
		Yellow	2ASLR8-2P	
	Connection with Resistor	Please mention the voltage required after the ordering code		
2 Position Momentary illuminated selector actuator				
		White	2ASL1-2PSR	
	Filament bulb	Green	2ASL3-2PSR	
	6V to 130V AC/DC	Red	2ASL4-2PSR	
		Amber	2ASL5-2PSR	
		Blue	2ASL6-2PSR	
		Clear	2ASL7-2PSR	
		Yellow	2ASL8-2PSR	
	Direct Connection	Please mention the voltage required after the ordering code		
		White	2ASLR1-2PSR	
	Filament bulb	Green	2ASLR3-2PSR	
	24 V,48V,110V,230V AC/DC	Red	2ASLR4-2PSR	
		Amber	2ASLR5-2PSR	
		Blue	2ASLR6-2PSR	
		Clear	2ASLR7-2PSR	
		Yellow	2ASLR8-2PSR	
	Connection with Resistor	Please mention the voltage required after the ordering code		

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ILLUMINATED SELECTOR WITH LED

	TYPE	COLOUR	ORDERING CODE				
2 Position, Stayput Illuminated Selector Actuator							
		Yellow LED / White Lens	2ASLR1L-2P				
	Integral LED	White LED / White Lens	2ASLR1L(S)-2P				
	6V, 12V, 24V, 48V AC/DC	Green LED / Green Lens	2ASLR3L-2P				
	110VAC, 110VDC,	Red LED / Red Lens	2ASLR4L-2P				
	230VAC, 220VDC	Amber LED / Amber Lens	2ASLR5L-2P				
			Blue LED / Blue Lens	2ASLR6L-2P			
			Yellow LED / Clear Lens	2ASLR7L-2P			
			White LED / Clear Lens	2ASLR7L(S)-2P			
			Yellow LED / Yellow Lens	2ASLR8L-2P			
	Integral LED	Please mention the voltage required after the ordering code					
		Yellow LED Bulb / White Lens	2ASL1LB-2P				
	LED Bulb, BA9S type	White LED Bulb / White Lens	2ASL1LB(S)-2P				
	24V AC/DC,	Green LED Bulb / Green Lens	2ASL3LB-2P				
	110VAC, 110VDC	Red LED Bulb / Red Lens	2ASL4LB-2P				
	230VAC, 220VDC	Amber LED Bulb / Amber Lens	2ASL5LB-2P				
			Blue LED Bulb / Blue Lens	2ASL6LB-2P			
			Yellow LED Bulb / Clear Lens	2ASL7LB-2P			
			White LED Bulb / Clear Lens	2ASL7LB(S)-2P			
			Yellow LED Bulb / Yellow Lens	2ASL8LB-2P			
	LED Bulb	Please mention the voltage required after the ordering code					
2 Position, Momentary Illuminated Selector Actuator							
		Yellow LED / White Lens	2ASLR1L-2PSR				
	Integral LED	White LED / White Lens	2ASLR1L(S)-2PSR				
	6V, 12V, 24V, 48V AC/DC	Green LED / Green Lens	2ASLR3L-2PSR				
	110VAC, 110VDC,	Red LED / Red Lens	2ASLR4L-2PSR				
	230VAC, 220VDC	Amber LED / Amber Lens	2ASLR5L-2PSR				
			Blue LED / Blue Lens	2ASLR6L-2PSR			
			Yellow LED / Clear Lens	2ASLR7L-2PSR			
			White LED / Clear Lens	2ASLR7L(S)-2PSR			
			Yellow LED / Yellow Lens	2ASLR8L-2PSR			
	Integral LED	Please mention the voltage required after the ordering code					
		Yellow LED Bulb / White Lens	2ASL1LB-2PSR				
	LED Bulb, BA9S type	White LED Bulb / White Lens	2ASL1LB(S)-2PSR				
	24V AC/DC,	Green LED Bulb / Green Lens	2ASL3LB-2PSR				
	110VAC, 110VDC	Red LED Bulb / Red Lens	2ASL4LB-2PSR				
	230VAC, 220VDC	Amber LED Bulb / Amber Lens	2ASL5LB-2PSR				
			Blue LED Bulb / Blue Lens	2ASL6LB-2PSR			
			Yellow LED Bulb / Clear Lens	2ASL7LB-2PSR			
			White LED Bulb / Clear Lens	2ASL7LB(S)-2PSR			
			Yellow LED Bulb / Yellow Lens	2ASL8LB-2PSR			
	LED Bulb	Please mention the voltage required after the ordering code					

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Control & Signalling Devices 22.5 Ø
METALLIC SERIES











ILLUMINATED SELECTOR WITH FILAMENT BULB

	TYPE	COLOUR	ORDERING CODE			
3 Position illuminated selector actuator						
	Stayput	White	2ASL1-3P			
	Filament bulb	Green	2ASL3-3P			
	6V to 130V AC/DC	Red	2ASL4-3P			
		Amber	2ASL5-3P			
		Blue	2ASL6-3P			
		Clear	2ASL7-3P			
		Yellow	2ASL8-3P			
	Momentary	White	2ASL1-3PSR			
	Filament bulb	Green	2ASL3-3PSR			
	6V to 130V AC/DC	Red	2ASL4-3PSR			
		Amber	2ASL5-3PSR			
		Blue	2ASL6-3PSR			
		Clear	2ASL7-3PSR			
		Yellow	2ASL8-3PSR			
Stayput / Momentary	White	2ASL1-3PSRL				
Filament bulb	Green	2ASL3-3PSRL				
6V to 130V AC/DC	Red	2ASL4-3PSRL				
Direct Connection						
		Amber	2ASL5-3PSRL			
		Blue	2ASL6-3PSRL			
		Clear	2ASL7-3PSRL			
		Yellow	2ASL8-3PSRL			
	Stayput / Momentary	White	2ASL1-3PSRR			
	Filament bulb	Green	2ASL3-3PSRR			
	6V to 130V AC/DC	Red	2ASL4-3PSRR			
		Amber	2ASL5-3PSRR			
		Blue	2ASL6-3PSRR			
		Clear	2ASL7-3PSRR			
		Yellow	2ASL8-3PSRR			
	3 Position illuminated selector actuator					
		Stayput	White	2ASLR1-3P		
		Filament bulb	Green	2ASLR3-3P		
24 V, 48V, 110V, 230V AC/DC		Red	2ASLR4-3P			
		Amber	2ASLR5-3P			
		Blue	2ASLR6-3P			
		Clear	2ASLR7-3P			
		Yellow	2ASLR8-3P			
Momentary		White	2ASLR1-3PSR			
Filament bulb		Green	2ASLR3-3PSR			
24 V, 48V, 110V, 230V AC/DC		Red	2ASLR4-3PSR			
		Amber	2ASLR5-3PSR			
		Blue	2ASLR6-3PSR			
		Clear	2ASLR7-3PSR			
		Yellow	2ASLR8-3PSR			
Stayput / Momentary	White	2ASLR1-3PSRL				
Filament bulb	Green	2ASLR3-3PSRL				
24 V, 48V, 110V, 230V AC/DC	Red	2ASLR4-3PSRL				
Connection with Resistor						
		Amber	2ASLR5-3PSRL			
		Blue	2ASLR6-3PSRL			
		Clear	2ASLR7-3PSRL			
		Yellow	2ASLR8-3PSRL			
	Stayput / Momentary	White	2ASLR1-3PSRR			
	Filament bulb	Green	2ASLR3-3PSRR			
	24 V, 48V, 110V, 230V AC/DC	Red	2ASLR4-3PSRR			
		Amber	2ASLR5-3PSRR			
		Blue	2ASLR6-3PSRR			
		Clear	2ASLR7-3PSRR			
		Yellow	2ASLR8-3PSRR			

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METALLIC SERIES

ILLUMINATED SELECTOR WITH LED

	TYPE	COLOUR	ORDERING CODE			
3 Position Illuminated Selector Actuator with Integral LED						
	Stayput	Yellow LED / White Lens	2ASLR1L-3P			
	Integral LED	White LED / White Lens	2ASLR1L(S)-3P			
	6V, 12V, 24V, 48V AC/DC	Green LED / Green Lens	2ASLR3L-3P			
	110VAC, 110VDC,	Red LED / Red Lens	2ASLR4L-3P			
	230VAC, 220VDC	Amber LED / Amber Lens	2ASLR5L-3P			
		Blue LED / Blue Lens	2ASLR6L-3P			
		Yellow LED / Clear Lens	2ASLR7L-3P			
		White LED / Clear Lens	2ASLR7L(S)-3P			
		Yellow LED / Yellow Lens	2ASLR8L-3P			
	Please mention the voltage required after the ordering code					
	Momentary	Yellow LED / White Lens	2ASLR1L-3PSR			
	Integral LED	White LED / White Lens	2ASLR1L(S)-3PSR			
	6V, 12V, 24V, 48V AC/DC	Green LED / Green Lens	2ASLR3L-3PSR			
	110VAC, 110VDC,	Red LED / Red Lens	2ASLR4L-3PSR			
	230VAC, 220VDC	Amber LED / Amber Lens	2ASLR5L-3PSR			
	Blue LED / Blue Lens	2ASLR6L-3PSR				
	Yellow LED / Clear Lens	2ASLR7L-3PSR				
	White LED / Clear Lens	2ASLR7L(S)-3PSR				
	Yellow LED / Yellow Lens	2ASLR8L-3PSR				
Integral LED	Yellow LED / White Lens	2ASLR1L-3PSRL				
Integral LED	White LED / White Lens	2ASLR1L(S)-3PSRL				
6V, 12V, 24V, 48V AC/DC	Green LED / Green Lens	2ASLR3L-3PSRL				
110VAC, 110VDC,	Red LED / Red Lens	2ASLR4L-3PSRL				
230VAC, 220VDC	Amber LED / Amber Lens	2ASLR5L-3PSRL				
	Blue LED / Blue Lens	2ASLR6L-3PSRL				
	Yellow LED / Clear Lens	2ASLR7L-3PSRL				
	White LED / Clear Lens	2ASLR7L(S)-3PSRL				
	Yellow LED / Yellow Lens	2ASLR8L-3PSRL				
Stayput / Momentary	Yellow LED / White Lens	2ASLR1L-3PSRR				
Integral LED	White LED / White Lens	2ASLR1L(S)-3PSRR				
6V, 12V, 24V, 48V AC/DC	Green LED / Green Lens	2ASLR3L-3PSRR				
110VAC, 110VDC,	Red LED / Red Lens	2ASLR4L-3PSRR				
230VAC, 220VDC	Amber LED / Amber Lens	2ASLR5L-3PSRR				
	Blue LED / Blue Lens	2ASLR6L-3PSRR				
	Yellow LED / Clear Lens	2ASLR7L-3PSRR				
	White LED / Clear Lens	2ASLR7L(S)-3PSRR				
	Yellow LED / Yellow Lens	2ASLR8L-3PSRR				
3 Position Illuminated Selector Actuator with LED Bulb						
	Stayput	Yellow LED Bulb / White Lens	2ASL1LB-3P			
	LED Bulb, BA9S type	White LED Bulb / White Lens	2ASL1LB(S)-3P			
	24V AC/DC,	Green LED Bulb / Green Lens	2ASL3LB-3P			
	110VAC, 110VDC	Red LED Bulb / Red Lens	2ASL4LB-3P			
	230VAC, 220VDC	Amber LED Bulb / Amber Lens	2ASL5LB-3P			
		Blue LED Bulb / Blue Lens	2ASL6LB-3P			
		Yellow LED Bulb / Clear Lens	2ASL7LB-3P			
		White LED Bulb / Clear Lens	2ASL7LB(S)-3P			
		Yellow LED Bulb / Yellow Lens	2ASL8LB-3P			
	Please mention the voltage required after the ordering code					
	Momentary	White LED / White Lens	2ASL1L-3PSR			
	LED Bulb, BA9S type	White LED / White Lens	2ASL1L(S)-3PSR			
	24V AC/DC,	Green LED / Green Lens	2ASL3L-3PSR			
	110VAC, 110VDC	Red LED / Red Lens	2ASL4L-3PSR			
	230VAC, 220VDC	Amber LED / Amber Lens	2ASL5L-3PSR			
	Blue LED / Blue Lens	2ASL6L-3PSR				
	Yellow LED / Clear Lens	2ASL7L-3PSR				
	White LED / Clear Lens	2ASL7L(S)-3PSR				
	Yellow LED / Yellow Lens	2ASL8L-3PSR				
LED Bulb	Yellow LED Bulb / White Lens	2ASL1LB-3PSRL				
LED Bulb, BA9S type	White LED Bulb / White Lens	2ASL1LB(S)-3PSRL				
24V AC/DC,	Green LED Bulb / Green Lens	2ASL3LB-3PSRL				
110VAC, 110VDC	Red LED Bulb / Red Lens	2ASL4LB-3PSRL				
230VAC, 220VDC	Amber LED Bulb / Amber Lens	2ASL5LB-3PSRL				
	Blue LED Bulb / Blue Lens	2ASL6LB-3PSRL				
	Yellow LED Bulb / Clear Lens	2ASL7LB-3PSRL				
	White LED Bulb / Clear Lens	2ASL7LB(S)-3PSRL				
	Yellow LED Bulb / Yellow Lens	2ASL8LB-3PSRL				
Please mention the voltage required after the ordering code						
Stayput / Momentary	White LED / White Lens	2ASL1L-3PSRR				
LED Bulb, BA9S type	White LED / White Lens	2ASL1L(S)-3PSRR				
24V AC/DC,	Green LED / Green Lens	2ASL3L-3PSRR				
110VAC, 110VDC	Red LED / Red Lens	2ASL4L-3PSRR				
230VAC, 220VDC	Amber LED / Amber Lens	2ASL5L-3PSRR				
	Blue LED / Blue Lens	2ASL6L-3PSRR				
	Yellow LED / Clear Lens	2ASL7L-3PSRR				
	White LED / Clear Lens	2ASL7L(S)-3PSRR				
	Yellow LED / Yellow Lens	2ASL8L-3PSRR				

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Control & Signalling Devices 22.5 Ø
METALLIC SERIES

PILOT LIGHTS WITH BULB

	TYPE	COLOUR	ORDERING CODE		
	Pilot Light				
		White	2PLB1		
	Filament Bulb	Green	2PLB3		
	6V to 130V AC/DC	Red	2PLB4		
		Amber	2PLB5		
		Blue	2PLB6		
		Clear	2PLB7		
		Yellow	2PLB8		
	Direct Connection	Please mention the voltage required after the ordering code			
		White	2PLBR1		
	Filament Bulb	Green	2PLBR3		
	24V,48V,110V, 230V, AC/DC	Red	2PLBR4		
		Amber	2PLBR5		
		Blue	2PLBR6		
		Clear	2PLBR7		
		Yellow	2PLBR8		
	Connection with Resistor	Please mention the voltage required after the ordering code			
		White	2PLBR1240AC		
	Filament Bulb	Green	2PLBR3240AC		
	230V AC	Red	2PLBR4240AC		
		Amber	2PLBR5240AC		
		Blue	2PLBR6240AC		
		Clear	2PLBR7240AC		
		Yellow	2PLBR8240AC		
	Connection with Resistor+Diode				
	Filament Bulb				
	Primary volt. Sec. Volt	White	2PLBT1 XX / YYY		
	110VAC 6	Green	2PLBT3 XX / YYY		
	110VAC 12	Red	2PLBT4 XX / YYY		
	110VAC 24	Amber	2PLBT5 XX / YYY		
	Primary volt. Sec. Volt	Blue	2PLBT6 XX / YYY		
	240VAC 6	Clear	2PLBT7 XX / YYY		
	240VAC 12	Yellow	2PLBT8 XX / YYY		
	240VAC 24				
	Connection with Transformer	XX - Primary Voltage YYY - Secondary Voltage			

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Control & Signalling Devices 22.5 Ø
METALLIC SERIES





PILOT LIGHTS

	Type	Colour of Lens / LED	Ordering Code		
Pilot Light with Integral LED					
		Yellow LED / White Lens	2PLBR1L		
	Integral LED	White LED / White Lens	2PLBR1L(S)		
	6V, 12V, 24V, 48V AC/DC	Green LED / Green Lens	2PLBR3L		
	110VAC, 110VDC,	Red LED / Red Lens	2PLBR4L		
	230VAC, 220VDC	Amber LED / Amber Lens	2PLBR5L		
		Blue LED / Blue Lens	2PLBR6L		
		Yellow LED / Clear Lens	2PLBR7L		
		White LED / Clear Lens	2PLBR7L(S)		
		Yellow LED / Yellow Lens	2PLBR8L		
	Please mention the voltage required after the ordering code				
		Yellow LED / White Lens	2PLFBR1LF		
Integral LED	Integral LED, Flasher	White LED / White Lens	2PLFBR1LF(S)		
	6V, 12V, 24V, 48V AC/DC	Green LED / Green Lens	2PLFBR3LF		
	110VAC, 110VDC,	Red LED / Red Lens	2PLFBR4LF		
	230VAC, 220VDC	Amber LED / Amber Lens	2PLFBR5LF		
		Blue LED / Blue Lens	2PLFBR6LF		
		Yellow LED / Clear Lens	2PLFBR7LF		
		White LED / Clear Lens	2PLFBR7LF(S)		
		Yellow LED / Yellow Lens	2PLFBR8LF		
	Integral LED, Universal	Yellow LED / White Lens	2PLBR1LU		
	24V upto 240V AC / DC	White LED / White Lens	2PLBR1LU(S)		
		Green LED / Green Lens	2PLBR3LU		
		Red LED / Red Lens	2PLBR4LU		
		Amber LED / Amber Lens	2PLBR5LU		
		Blue LED / Blue Lens	2PLBR6LU		
		Yellow LED / Clear Lens	2PLBR7LU		
		White LED / Clear Lens	2PLBR7LU(S)		
		Yellow LED / Yellow Lens	2PLBR8LU		
		Yellow LED / White Lens	2PLBR1L		
	Integral LED	White LED / White Lens	2PLBR1L(S)		
	415VAC	Green LED / Green Lens	2PLBR3L		
		Red LED / Red Lens	2PLBR4L		
		Amber LED / Amber Lens	2PLBR5L		
		Blue LED / Blue Lens	2PLBR6L		
		Yellow LED / Clear Lens	2PLBR7L		
		White LED / Clear Lens	2PLBR7L(S)		
Integral LED		Yellow LED / Yellow Lens	2PLBR8L		
Pilot Light with LED Bulb					
		Yellow LED Bulb / White Lens	2PLB1LB		
	LED Bulb, BA9S type	White LED Bulb / White Lens	2PLB1LB(S)		
	24V AC/DC,	Green LED Bulb / Green Lens	2PLB3LB		
	110VAC, 110VDC	Red LED Bulb / Red Lens	2PLB4LB		
	230VAC, 220VDC	Amber LED Bulb / Amber Lens	2PLB5LB		
		Blue LED Bulb / Blue Lens	2PLB6LB		
		Yellow LED Bulb / Clear Lens	2PLB7LB		
		White LED Bulb / Clear Lens	2PLB7LB(S)		
		Yellow LED Bulb / Yellow Lens	2PLB8LB		
Please mention the voltage required after the ordering code					
	LED Bulb	Yellow LED Bulb / White Lens	2PLBT1LBXX/YYY		
	Primary volt. Sec. Volt	White LED Bulb / White Lens	2PLB1LB(S)XX/YYY		
	110VAC 6	Green LED Bulb / Green Lens	2PLB3LBXX/YYY		
	110VAC 12	Red LED Bulb / Red Lens	2PLB4LBXX/YYY		
	110VAC 24	Amber LED Bulb / Amber Lens	2PLB5LBXX/YYY		
	Primary volt. Sec. Volt	Blue LED Bulb / Blue Lens	2PLB6LBXX/YYY		
	240VAC 6	Yellow LED Bulb / Clear Lens	2PLB7LBXX/YYY		
	240VAC 12	White LED Bulb / Clear Lens	2PLB7LB(S)XX/YYY		
240VAC 24	Yellow LED Bulb / Yellow Lens	2PLB8LBXX/YYY			
Connection with Transformer			XX - Primary Voltage		
			YYY - Secondary Voltage		

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Control & Signalling Devices 22.5 Ø
METALLIC SERIES

TWIN ILLUMINATED

	Type	COLOUR	ORDERED CODE
Twin Illuminated 1 Flush, 1 Projecting (IO) Mark with Filament Bulb			
	Filament bulb	Red button	2ATL5 F3P4 (IO)
	6V to 130V AC/DC	Green button	
		Amber lens	
Direct Connection	Please mention the voltage required after the ordering code		
Twin Illuminated Double Flush, (IO) Mark with Filament Bulb			
	Filament bulb	Red button	2ATLR5 F3P4 (IO)
	24 V,48V,110V,230V AC/DC	Green button	
		Amber lens	
Connection with Resistor	Please mention the voltage required after the ordering code		
Twin Illuminated Double Flush, (IO) Mark with Filament Bulb			
	Filament bulb	Red button	2ATL5 F3F4 (IO)
	6V to 130V AC/DC	Green button	
		Amber lens	
Direct Connection	Please mention the voltage required after the ordering code		
	Filament bulb	Red button	2ATLR5 F3F4 (IO)
	24 V,48V,110V,230V AC/DC	Green button	
		Amber lens	
Connection with Resistor	Please mention the voltage required after the ordering code		





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Control & Signalling Devices 22.5 Ø
METALLIC SERIES

TWIN ILLUMINATED WITH LED						
	TYPE	COLOUR	ORDERING CODE			
Twin Illuminated 1 Flush, 1 Projecting (IO) Mark						
	Integral LED	Green	2ATLR5LF3P4 (IO)			
	6V, 12V, 24V, 48V AC/DC	Red				
	110VAC, 110VDC,	Amber lens				
	230VAC, 220VDC					
Integral LED	Please mention the voltage required after the ordering code					
	LED Bulb,BA9S type	Green	2ATL5LBF3P4 (IO)			
	24V AC/DC,	Red				
	110VAC, 110VDC	Amber lens				
	230VAC, 220VDC					
LED Bulb	Please mention the voltage required after the ordering code					
Twin Illuminated Double Flush (IO) Marked						
	Integral LED	Green	2ATLR5LF3F4 (IO)			
	6V, 12V, 24V, 48V AC/DC	Red				
	110VAC, 110VDC,	Amber lens				
	230VAC, 220VDC					
Integral LED	Please mention the voltage required after the ordering code					
	LED Bulb,BA9S type	Green	2ATL5LBF3F4 (IO)			
	24V AC/DC,	Red				
	110VAC, 110VDC	Amber lens				
	230VAC, 220VDC					
LED Bulb	Please mention the voltage required after the ordering code					





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Control & Signalling Devices 22.5 Ø
METALLIC SERIES

ILLUMINATED MUSHROOM					
	TYPE	COLOUR	ORDERING CODE		
Illuminated Mushroom, Momentary with Filament Bulb					
					
	Filament bulb	Red	2ALM4		
	6V to 130V AC/DC				
Direct Connection	Please mention the voltage required after the ordering code				
					
	Filament bulb	Red	2ALRM4		
	24 V,48V,110V,230V AC/DC				
Connection with Resistor	Please mention the voltage required after the ordering code				
Illuminated Mushroom, Push Pull with Filament Bulb					
					
	Filament bulb	Red	2ALMPP4		
	6V to 130V AC/DC				
Direct Connection	Please mention the voltage required after the ordering code				
					
	Filament bulb	Red	2ALRMPP4		
	24 V,48V,110V,230V AC/DC				
Connection with Resistor	Please mention the voltage required after the ordering code				

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Control & Signalling Devices 22.5 Ø
METALLIC SERIES

ILLUMINATED MUSHROOM WITH LED						
	TYPE	COLOUR	ORDERING CODE			
Illuminated Mushroom, Momentary						
	Integral LED	Red	2ALRM4L			
	6V, 12V, 24V, 48V AC/DC					
	110VAC, 110VDC,					
	230VAC, 220VDC					
Integral LED Please mention the voltage required after the ordering code						
	LED Bulb, BA9S type	Red	2ALM4LB			
	24V AC/DC,					
	110VAC, 110VDC					
	230VAC, 220VDC					
LED Bulb Please mention the voltage required after the ordering code						
Illuminated Mushroom, Push Pull						
	Integral LED	Red	2ALRMPP4L			
	6V, 12V, 24V, 48V AC/DC					
	110VAC, 110VDC,					
	230VAC, 220VDC					
Integral LED Please mention the voltage required after the ordering code						
	LED Bulb, BA9S type	Red	2ALMPP4LB			
	24V AC/DC,					
	110VAC, 110VDC					
	230VAC, 220VDC					
LED Bulb 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 CONTACTS	S7	
	NORMALLY CLOSED (NC) GOLD CONTACTS	S8	

Common types of control and signalling devices Ø 22.5

Description	Type of Actuator or Lense Assembly	Colour of Actuator or Lense	Contact Elements NO = S1 NC = S2 or Lamp Holder	Type of complete Control or Signalling Device	
Flush Pushbutton	2AF3	Green	1NO	2PSF310	
	2AF8	Yellow	2NO+1NC	2PSF821	
Projecting Pushbutton	2AP2	Black	2NC	2PSP202	
	2AP4	Red	3NO+3NC	2PSP433	
Mushroom Pushbutton Spring return	2AM2	Black	1NO+1NC	2PSM211	
	2AM4	Red	1NC	2PSM401	
Mushroom Pushbutton latching turn to release	2AML2	Black	1NC	2PSML201	
	2AML4	Red	2NO+2NC	2PSML422	
Mushroom Pushbutton latching, key to release	2AMLKB4	Red	1NO+1NC	2PSMLKB411	
Selector Actuator(2Pos)	2AS2-2P	Black	1NO	2PSS210-2P	
Selector Actuator(3Pos)	2AS2-3P	Red	1NO+1NC	2PSS211-3P	
Key Actuator (2Pos), Key withdrawable in both positions	2AK2-2PB		1NO	2PSK210-2PB	
Key Actuator (3Pos), Key withdrawable in left & right positions	2AK2-3PB		1NO+1NC	2PSK211-3PB	
Selector Illuminated Pushbutton, 2 position with resistance and diode (230V)	2ASLR3-2P230AC	Green	1NO+1NC + 2LHBR230AC	2PSSLR311-2P230AC	
Selector Illuminated Pushbutton, 3 Position with resistance (24V)	2ASLR4-3P24	Red	1NO+1NC + 2LHBR24	2PSSLR411-3P24	
Pilot Light for direct connection upto 130V	2LA3	Green	2LHB24	2PLB324	
	2LA4	Red	2LHB130	2PLB4130	
Pilot Light through resistor and diode for 230 V AC. Bulb:130V.	2LA5	Amber	2LHBR230AC	2PLBR5230AC	
	2LA6	Blue	2LHBR230AC	2PLBR6230AC	
Pilot Light with transformer for 230 V Bulb:24 V.	2LA4	Red	2LHBT230/24	2PLBT4230/24	
	2LA3	Green	2LHBT230/24	2PLBT3230/24	
Flush Illuminated Pushbutton with integral LED for 24 V DC	2ALRF3L24DC	Green	1NO+1NC + 2LHLR24DC	2PSLRF3L1124DC	
Projecting Illuminated Pushbutton with integral LED 230 V AC	2ALRP4L230AC	Red	1NO+1NC + 2LHLR230AC	2PSLRP4L11230AC	
Pilot Light with LED bulb for 110 V Bulb:110 V	2LAL5	Amber	2LHLB110	2PLB5LB110	
Twin Pushbutton marked "I O"	2ATF2-F4-IO	Flush-Black	1 NO	2PSTF210-F401-IO	
Flush - Flush		Flush-Red	1 NC		
Twin Pushbutton not marked	2ATF3-P4	Flush-Green	1NO+1NC	2PSTF311-P411	
Flush - Projecting		Proj-Red	1NO+1NC		
Twin Illuminated Pushbutton marked "I O" Flush - Flush direct connection (130V)	2ATL3-F2-F4 IO130	Lense-Green Flush-Black Flush-Red	2LHB130 1 NO + 1 NC 1 NC	2PSTL3F211-F401-IO130	
Twin Illuminated Pushbutton not marked Flush - Projecting with resistance (24V)	2ATLR5-F3-P424	Lense-Amber Flush-Green Proj.-Red	2LHBR24 1 NO 1 NC	2PSTLR5F310-P40124	