

# 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:

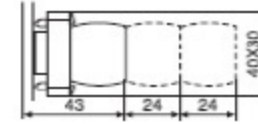
- Economy of space
- Aesthetically elegant
- SELF WIPING CONTACT
- Robust in materials of construction
- Simple to fix - screw driver is all that required
- Safe in operation
- Fixing method unaffected by excessive vibration-unit does not rotate
- Very good flame resistance
- Protection against electric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

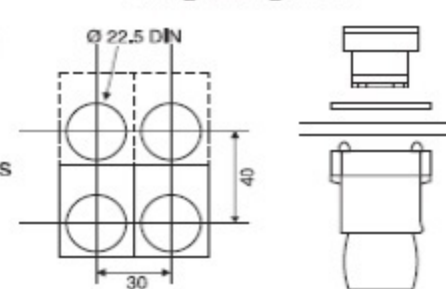
### Terminals

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 lense assemblies lock on to the holding bracket using a bayonet type of fixing which enables a simple and fast assembly. The complete assembly is locked into position on the panel by two M4 pointed screws on the bracket, tightened equally from the rear. The screws should be tightened adequately to such an extent as to pierce through the paint on the panel from inside. These screws also ensure the earthing of the unit.

### Fixing arrangement



### Electrical and mechanical characteristics

#### Environment

Standard conformity : CSA - C22.2 No. 14-95, UL508, 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 : AC 15 4 A, 415V AC  
 As per IEC 947 - 5 - (1) 1990 : 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<sup>2</sup>, maximum 2 x 1.5 mm<sup>2</sup> or 1 x 2.5 mm<sup>2</sup>  
 Terminal marking : 1-2 for NC, 3-4 for NO  
 Short circuit protection : 10 A cartridge fuse HRC type, rated for resistive loading  
 Mechanical life : Over 1 million operations  
 Electric rating :  
 (for 1 million operation cycles, operation at 3600 cycles per hour, load factor 0.5)

AC 15	V	24	120	230	DC 13	V	24	110
	A	5	4	3		A	0.5	0.2

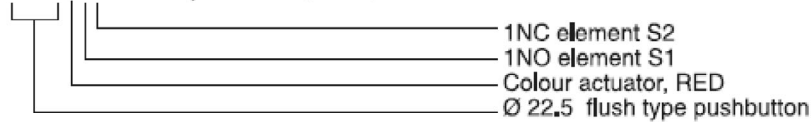
### Modules for pilot light & illuminated switches with integral LED / multichip LED bulb (BA9S cap)

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) : 50,000 hours  
 Voltage limits (nominal voltage) : < 20% of rated voltage >  
 Short circuit protection : on specific request  
 Terminal capacity : min. 1 x 0.5 mm<sup>2</sup>, max. 2 x 1.5 mm<sup>2</sup> or 1 x 2.5 mm<sup>2</sup>

## Control and signalling devices Ø 22.5

### Ordering instructions

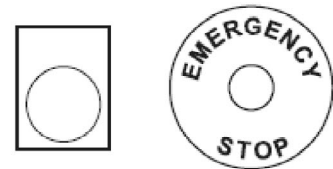
- Actuators, illuminated actuators, contact elements, lense assemblies & pilot lights can all be ordered separately or in combination.
- The type numbers of contact elements are : NO: Actuator mounting : S1, S3 Note:  
Individual mounting : S5, S7 S3, S4, S7, S8 are gold plated contacts  
NC: Actuator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

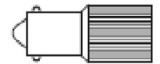
Voltage	: 6	12	24	30	48	60	130
Watts	: 1	2	2	2	2	2	2,6



#### LED bulb

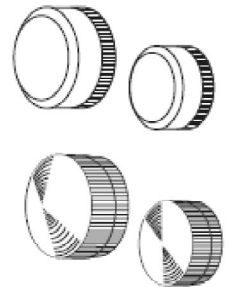
LED multichip bulb type BA9S, OAL 28mm

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	Green	Red	Amber	Blue	Clear	Yellow
		White						
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



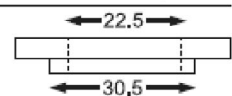
#### Push Push mechanism for converting spring return actuator into stay put type

Type No.: 2PPM



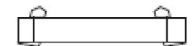
#### Adaptor for fixing Ø 22.5 devices in Ø 30.5 cutout.

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



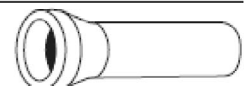
#### Boot for twin ill. actuator

Colour of Boot	: Clear
Type No	: 2ATLBT7



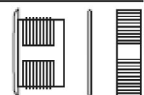
#### Bulb extractor

Type No. : 2BA9SE



#### Blanking plug for Ø 22.5 hole, black







Type No. : 2BP2



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

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## METALLIC SERIES

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

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METALLIC SERIES









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



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## SELECTOR ACTUATORS


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









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









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






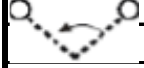


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METALLIC SERIES

ILLUMINATED ACTUATOR WITH LED			
	TYPE	COLOUR of LED / LENS	ORDERING CODE
	<b>Illuminated Flush actuator, Momentary</b>		
	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
		White LED / Clear Lens	2ALRF7L(S)
		Yellow LED / Yellow Lens	2ALRF8L
Integral LED	Please mention the voltage required after the ordering code		
	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
		White LED Bulb / Clear Lens	2ALF7LB(S)
		Yellow LED Bulb / Yellow Lens	2ALF8LB
	LED Bulb	Please mention the voltage required after the ordering code	
	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
		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	
	<b>Illuminated Projecting Actuator, Momentary</b>		
	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
		White LED / Clear Lens	2ALRP7L(S)
		Yellow LED / Yellow Lens	2ALRP8L
Integral LED	Please mention the voltage required after the ordering code		
	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
		White LED / Clear Lens	2ALP7L(S)
		Yellow LED Bulb / Yellow Lens	2ALP8LB
	LED Bulb	Please mention the voltage required after the ordering code	
	Integral LED	White LED / White Lens	2ALRP1LF(S)
	24V, 110V, 230V, AC	Green LED / Green Lens	2ALRP3LF
		Red LED / Red Lens	2ALRP4LF
		Amber LED / Amber Lens	2ALRP5LF
		Blue LED / Blue Lens	2ALRP6LF
		White LED / Clear Lens	2ALRP7LF(S)
		Yellow LED / Yellow Lens	2ALRP8LF
	Flasher with Integral LED	Please mention the voltage required after the ordering code	
	<b>Illuminated Projecting type Push to ON &amp; Push to Release</b>		
	Integral LED	White LED / White Lens	2ALRPPP1L(S)
	6V, 12V, 24V, 48V AC/DC	Green LED / Green Lens	2ALRPPP3L
	110VAC, 110VDC,	Red LED / Red Lens	2ALRPPP4L
	230VAC, 220VDC	Amber LED / Amber Lens	2ALRPPP5L
		Blue LED / Blue Lens	2ALRPPP6L
		White LED / Clear Lens	2ALRPPP7L(S)
		Yellow LED / Yellow Lens	2ALRPPP8L
Integral LED	Please mention the voltage required after the ordering code		
	LED Bulb, BA9S type	White LED Bulb / White Lens	2ALRPPP1LB(S)
	24V AC/DC,	Green LED Bulb / Green Lens	2ALRPPP3LB
	110VAC, 110VDC	Red LED Bulb / Red Lens	2ALRPPP4LB
	230VAC, 220VDC	Amber LED Bulb / Amber Lens	2ALRPPP5LB
		Blue LED Bulb / Blue Lens	2ALRPPP6LB
		White LED / Clear Lens	2ALRPPP7L(S) B
		Yellow LED Bulb / Yellow Lens	2ALRPPP8LB
	LED Bulb	Please mention the voltage required after the ordering code	

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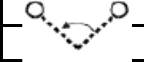

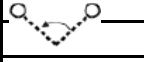
Control & Signalling Devices 22.5 Ø  
METALLIC SERIES

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













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ILLUMINATED SELECTOR WITH LED			
	TYPE	COLOUR	ORDERING CODE
<b>2 Position Illuminated Selector Actuator</b>			
	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
		White LED / Clear Lens	2ASLR7L(S)-2PSR
		Yellow LED / Yellow Lens	2ASLR8L-2PSR
Integral LED	Please mention the voltage required after the ordering code		
	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
		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		
	Integral LED	White LED Bulb / White Lens	2ASLR1L(S)-2PSR
	6V, 12V, 24V, 48V AC/DC	Green LED Bulb / Green Lens	2ASLR3L-2PSR
	110VAC, 110VDC,	Red LED Bulb / Red Lens	2ASLR4L-2PSR
	230VAC, 220VDC	Amber LED Bulb / Amber Lens	2ASLR5L-2PSR
		Blue LED Bulb / Blue Lens	2ASLR6L-2PSR
		White LED Bulb/ Clear Lens	2ASLR7L(S)-2PSR
		Yellow LED Bulb / Yellow Lens	2ASLR8L-2PSR
Integral LED	Please mention the voltage required after the ordering code		
	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
		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
<b>3 Position illuminated selector actuator</b>			
		White	2ASL1-3P
	Stayput	Green	2ASL3-3P
	Filament bulb	Red	2ASL4-3P
	6V to 130V AC/DC	Amber	2ASL5-3P
		Blue	2ASL6-3P
		Clear	2ASL7-3P
		Yellow	2ASL8-3P
		White	2ASL1-3PSR
	Momentary	Green	2ASL3-3PSR
	Filament bulb	Red	2ASL4-3PSR
	6V to 130V AC/DC	Amber	2ASL5-3PSR
		Blue	2ASL6-3PSR
		Clear	2ASL7-3PSR
		Yellow	2ASL8-3PSR
	White	2ASL1-3PSRL	
Stayput / Momentary	Green	2ASL3-3PSRL	
Filament bulb	Red	2ASL4-3PSRL	
<b>Direct Connection</b>	6V to 130V AC/DC	Amber	2ASL5-3PSRL
	Blue	2ASL6-3PSRL	
	Clear	2ASL7-3PSRL	
	Yellow	2ASL8-3PSRL	
	White	2ASL1-3PSRR	
Stayput / Momentary	Green	2ASL3-3PSRR	
Filament bulb	Red	2ASL4-3PSRR	
6V to 130V AC/DC	Amber	2ASL5-3PSRR	
	Blue	2ASL6-3PSRR	
	Clear	2ASL7-3PSRR	
	Yellow	2ASL8-3PSRR	
<b>3 Position illuminated selector actuator</b>			
		White	2ASLR1-3P
	Stayput	Green	2ASLR3-3P
	Filament bulb	Red	2ASLR4-3P
	24 V, 48V, 110V, 230V AC/DC	Amber	2ASLR5-3P
		Blue	2ASLR6-3P
		Clear	2ASLR7-3P
		Yellow	2ASLR8-3P
		White	2ASLR1-3PSR
	Momentary	Green	2ASLR3-3PSR
	Filament bulb	Red	2ASLR4-3PSR
	24 V, 48V, 110V, 230V AC/DC	Amber	2ASLR5-3PSR
		Blue	2ASLR6-3PSR
		Clear	2ASLR7-3PSR
		Yellow	2ASLR8-3PSR
	White	2ASLR1-3PSRL	
Stayput / Momentary	Green	2ASLR3-3PSRL	
Filament bulb	Red	2ASLR4-3PSRL	
24 V, 48V, 110V, 230V AC/DC	Amber	2ASLR5-3PSRL	
<b>Connection with Resistor</b>		Blue	2ASLR6-3PSRL
	Clear	2ASLR7-3PSRL	
	Yellow	2ASLR8-3PSRL	
	White	2ASLR1-3PSRR	
Stayput / Momentary	Green	2ASLR3-3PSRR	
Filament bulb	Red	2ASLR4-3PSRR	
24 V, 48V, 110V, 230V AC/DC	Amber	2ASLR5-3PSRR	
	Blue	2ASLR6-3PSRR	
	Clear	2ASLR7-3PSRR	
	Yellow	2ASLR8-3PSRR	





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Control & Signalling Devices 22.5 Ø  
METALLIC SERIES

ILLUMINATED SELECTOR WITH LED				
	TYPE	COLOUR	ORDERING CODE	
	<b>3 Position illuminated selector actuator with Integral LED</b>			
	Stayput	White LED / White Lens	2ASLR1L(S)-3P	
	Integral LED	Green LED / Green Lens	2ASLR3L-3P	
	6V, 12V, 24V, 48V AC/DC	Red LED / Red Lens	2ASLR4L-3P	
	110VAC, 110VDC,	Amber LED / Amber Lens	2ASLR5L-3P	
	230VAC, 220VDC	Blue LED / Blue Lens	2ASLR6L-3P	
		White LED / Clear Lens	2ASLR7L(S)-3P	
		Yellow LED / Yellow Lens	2ASLR8L-3P	
	Please mention the voltage required after the ordering code			
	Momentary	White LED / White Lens	2ASLR1L(S)-3PSR	
	Integral LED	Green LED / Green Lens	2ASLR3L-3PSR	
	6V, 12V, 24V, 48V AC/DC	Red LED / Red Lens	2ASLR4L-3PSR	
	110VAC, 110VDC,	Amber LED / Amber Lens	2ASLR5L-3PSR	
	230VAC, 220VDC	Blue LED / Blue Lens	2ASLR6L-3PSR	
		White LED / Clear Lens	2ASLR7L(S)-3PSR	
		Yellow LED / Yellow Lens	2ASLR8L-3PSR	
	Please mention the voltage required after the ordering code			
	Stayput / Momentary	White LED / White Lens	2ASLR1L(S)-3PSRL	
	Integral LED	Green LED / Green Lens	2ASLR3L-3PSRL	
	6V, 12V, 24V, 48V AC/DC	Red LED / Red Lens	2ASLR4L-3PSRL	
	110VAC, 110VDC,	Amber LED / Amber Lens	2ASLR5L-3PSRL	
	230VAC, 220VDC	Blue LED / Blue Lens	2ASLR6L-3PSRL	
		White LED / Clear Lens	2ASLR7L(S)-3PSRL	
		Yellow LED / Yellow Lens	2ASLR8L-3PSRL	
	Please mention the voltage required after the ordering code			
<b>Integral LED</b>	110VAC, 110VDC,	Amber LED / Amber Lens	2ASLR5L-3PSRL	
	230VAC, 220VDC	Blue LED / Blue Lens	2ASLR6L-3PSRL	
		White LED / Clear Lens	2ASLR7L(S)-3PSRL	
		Yellow LED / Yellow Lens	2ASLR8L-3PSRL	
Please mention the voltage required after the ordering code				
Stayput / Momentary	White LED / White Lens	2ASLR1L(S)-3PSRR		
Integral LED	Green LED / Green Lens	2ASLR3L-3PSRR		
6V, 12V, 24V, 48V AC/DC	Red LED / Red Lens	2ASLR4L-3PSRR		
110VAC, 110VDC,	Amber LED / Amber Lens	2ASLR5L-3PSRR		
230VAC, 220VDC	Blue LED / Blue Lens	2ASLR6L-3PSRR		
	White LED / Clear Lens	2ASLR7L(S)-3PSRR		
	Yellow LED / Yellow Lens	2ASLR8L-3PSRR		
Please mention the voltage required after the ordering code				
	<b>3 Position illuminated selector actuator with LED Bulb</b>			
	Stayput	White LED Bulb / White Lens	2ASL1LB(S)-3P	
	LED Bulb, BA9S type	Green LED Bulb / Green Lens	2ASL3LB-3P	
	24V AC/DC,	Red LED Bulb / Red Lens	2ASL4LB-3P	
	110VAC, 110VDC	Amber LED Bulb / Amber Lens	2ASL5LB-3P	
	230VAC, 220VDC	Blue LED Bulb / Blue Lens	2ASL6LB-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 Bulb / White Lens	2ASL1LB(S)-3PSR	
	LED Bulb, BA9S type	Green LED Bulb / Green Lens	2ASL3LB-3PSR	
	24V AC/DC,	Red LED Bulb / Red Lens	2ASL4LB-3PSR	
	110VAC, 110VDC	Amber LED Bulb / Amber Lens	2ASL5LB-3PSR	
	230VAC, 220VDC	Blue LED Bulb / Blue Lens	2ASL6LB-3PSR	
		White LED Bulb / Clear Lens	2ASL7LB(S)-3PSR	
		Yellow LED Bulb / Yellow Lens	2ASL8LB-3PSR	
	Please mention the voltage required after the ordering code			
	Stayput / Momentary	White LED Bulb / White Lens	2ASL1LB(S)-3PSRL	
	LED Bulb, BA9S type	Green LED Bulb / Green Lens	2ASL3LB-3PSRL	
	24V AC/DC,	Red LED Bulb / Red Lens	2ASL4LB-3PSRL	
	110VAC, 110VDC	Amber LED Bulb / Amber Lens	2ASL5LB-3PSRL	
	230VAC, 220VDC	Blue LED Bulb / Blue Lens	2ASL6LB-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			
<b>Connection with Resistor</b>	110VAC, 110VDC	Amber LED Bulb / Amber Lens	2ASL5LB-3PSRL	
	230VAC, 220VDC	Blue LED Bulb / Blue Lens	2ASL6LB-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 Bulb / White Lens	2ASL1LB(S)-3PSRR		
LED Bulb, BA9S type	Green LED Bulb / Green Lens	2ASL3LB-3PSRR		
24V AC/DC,	Red LED Bulb / Red Lens	2ASL4LB-3PSRR		
110VAC, 110VDC	Amber LED Bulb / Amber Lens	2ASL5LB-3PSRR		
230VAC, 220VDC	Blue LED Bulb / Blue Lens	2ASL6LB-3PSRR		
	White LED Bulb / Clear Lens	2ASL7LB(S)-3PSRR		
	Yellow LED Bulb / Yellow Lens	2ASL8LB-3PSRR		
Please mention the voltage required after the ordering code				

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Control & Signalling Devices 22.5 Ø  
METALLIC SERIES





PILOT LIGHTS WITH BULB			
	TYPE	COLOUR	ORDERING CODE
	<b>Pilot Light</b>		
		White	2PLB1
	Filament Bulb	Green	2PLB3
	6V to 130V AC/DC	Red	2PLB4
		Amber	2PLB5
		Blue	2PLB6
		Clear	2PLB7
		Yellow	2PLB8
	<b>Direct Connection</b>	<b>Please mention the voltage required after the ordering code</b>	
		White	2PLBR1
	Filament Bulb	Green	2PLBR3
	24V, 48V, 110V, 230V, AC/DC	Red	2PLBR4
		Amber	2PLBR5
		Blue	2PLBR6
		Clear	2PLBR7
		Yellow	2PLBR8
	<b>Connection with Resistor</b>	<b>Please mention the voltage required after the ordering code</b>	
		White	2PLBR1240AC
	Filament Bulb	Green	2PLBR3240AC
	230V AC	Red	2PLBR4240AC
		Amber	2PLBR5240AC
		Blue	2PLBR6240AC
		Clear	2PLBR7240AC
		Yellow	2PLBR8240AC
	<b>Connection with Resistor+Diode</b>		
	Filament Bulb		
	Primary volt.    Sec. Volt.	White	2PLBT1XX/YYY
	110 VAC            6	Green	2PLBT3XX/YYY
	110 VAC            12	Red	2PLBT4XX/YYY
	110 VAC            24	Amber	2PLBT5XX/YYY
	Primary volt.    Sec. Volt.	Blue	2PLBT6XX/YYY
	240 VAC            6	Clear	2PLBT7XX/YYY
	240 VAC            12	Yellow	2PLBT8XX/YYY
	240 VAC            24		
<b>Connection with Transformer</b>	<b>XX - Primary Voltage</b>		
	<b>YYY - Secondary Voltage</b>		



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Control & Signalling Devices 22.5 Ø

METALLIC SERIES

PILOT LIGHTS			
	TYPE	COLOUR	ORDERING CODE
	<b>Pilot Light with Integral LED</b>		
	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
		White LED / Clear Lens	2PLBR7L(S)
		Yellow LED / Yellow Lens	2PLBR8L
<b>Integral LED</b>	<b>Please mention the voltage required after the ordering code</b>		
	Integral LED, Flasher	White LED / White Lens	2PLBR1LF(S)
	6V, 12V, 24V, 48V AC/DC	Green LED / Green Lens	2PLBR3LF
	110VAC, 110VDC,	Red LED / Red Lens	2PLBR4LF
	230VAC, 220VDC	Amber LED / Amber Lens	2PLBR5LF
		Blue LED / Blue Lens	2PLBR6LF
		White LED / Clear Lens	2PLBR7LF(S)
		Yellow LED / Yellow Lens	2PLBR8LF
	<b>Flasher</b>	<b>Please mention the voltage required after the ordering code</b>	
		White LED / White Lens	2PLBR1LU(S)
	Integral LED, Universal	Green LED / Green Lens	2PLBR3LU
	24V upto 240V AC / DC	Red LED / Red Lens	2PLBR4LU
		Amber LED / Amber Lens	2PLBR5LU
		Blue LED / Blue Lens	2PLBR6LU
		White LED / Clear Lens	2PLBR7LU(S)
		Yellow LED / Yellow Lens	2PLBR8LU
	<b>Universal</b>		
		White LED / White Lens	2PLBR1L(S)
	Integral LED	Green LED / Green Lens	2PLBR3L
	415VAC	Red LED / Red Lens	2PLBR4L
		Amber LED / Amber Lens	2PLBR5L
		Blue LED / Blue Lens	2PLBR6L
		White LED / Clear Lens	2PLBR7L(S)
		Yellow LED / Yellow Lens	2PLBR8L
	<b>Integral LED</b>	<b>Please mention the voltage required after the ordering code</b>	
	<b>Pilot Light with Integral LED</b>		
	<b>LED Bulb, BA9S type</b>	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
		White LED Bulb / Clear Lens	2PLB7LB(S)
		Yellow LED Bulb / Yellow Lens	2PLB8LB
<b>LED Bulb</b>	<b>Please mention the voltage required after the ordering code</b>		
	<b>Filament Bulb</b>		
	Primary volt.	Sec. Volt.	White LED Bulb / White Lens
	110 VAC	6	Green LED Bulb / Green Lens
	110 VAC	12	Red LED Bulb / Red Lens
	110 VAC	24	Amber LED Bulb / Amber Lens
	Primary volt.	Sec. Volt.	Blue LED Bulb / Blue Lens
	240 VAC	6	White LED Bulb / Clear Lens
	240 VAC	12	Yellow LED Bulb / Yellow Lens
	240 VAC	24	
	<b>Connection with Transformer</b>	<b>XX - Primary Voltage</b> <b>YYY - Secondary Voltage</b>	





# TEKNIC

Control & Signalling Devices 22.5 Ø  
METALLIC SERIES

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





# TEKNIC

## Control & Signalling Devices 22.5 Ø METALLIC SERIES

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

# TEKNIC

Control & Signalling Devices 22.5 Ø  
METALLIC SERIES


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



# TEKNIC

Control & Signalling Devices 22.5 Ø

METALLIC SERIES

ILLUMINATED MUSHROOM WITH LED			
	TYPE	COLOUR	ORDERING CODE
	<b>Illuminated Mushroom, Momentary</b>		
	Integral LED	Red	2ALRM4L
	6V, 12V, 24V, 48V AC/DC		
	110VAC, 110VDC, 230VAC, 220VDC		
<b>Integral LED</b>	<b>Please mention the voltage required after the ordering code</b>		
	LED Bulb, BA9S type	Red	2ALM4LB
	24V AC/DC,		
	110VAC, 110VDC 230VAC, 220VDC		
<b>LED Bulb</b>	<b>Please mention the voltage required after the ordering code</b>		
	<b>Illuminated Mushroom, Push Pull</b>		
	Integral LED	Red	2ALRMPP4L
	6V, 12V, 24V, 48V AC/DC		
	110VAC, 110VDC, 230VAC, 220VDC		
<b>Integral LED</b>	<b>Please mention the voltage required after the ordering code</b>		
	LED Bulb, BA9S type	Red	2ALMPP4LB
	24V AC/DC,		
	110VAC, 110VDC 230VAC, 220VDC		
<b>LED Bulb</b>	<b>Please mention the voltage required after the ordering code</b>		

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## Control & Signalling Devices 22.5 Ø METALLIC SERIES

CONTACT ELEMENTS		
	TYPE	ORDERING CODE
<b>PANEL MOUNTING</b>		
	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
<b>BASE MOUNTING</b>		
	NORMALLY OPEN (NO) SILVER CONTACT	S5
	NORMALLY CLOSED (NC) SILVER CONTACT	S6
	NORMALLY OPEN (NO) GOLD CONTACT	S7
	NORMALLY CLOSED (NC) GOLD CONTACT	S8

# Common types of control and signalling devices Ø 22.5

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	