

TEKNIC



Control and Signaling Devices Ø 22.5 Metal Series



Control and Signaling devices Ø22.5

Salient features

This range of Ø22.5 pushbuttons, selector switches, illuminated switches, illuminated selector switches and pilot lights have been designed to provide the following salient features:

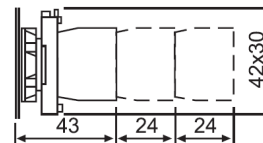
- Economy of space
- aesthetically elegant
- SELF WIPING CONTACT
- Robust in materials of construction
- Simple to fix - screw driver is all that required
- Safe in operation
- Fixing method unaffected by excessive vibration - Unit does not rotate
- Very good flame resistance
- Protection against electric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

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 but in transformers suitable for operating at 230. 110 volts AC Input and 6V, 12V and 24V output.

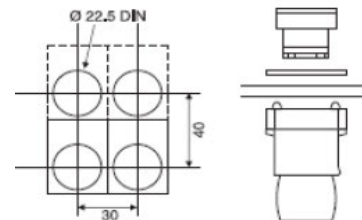
Terminals

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

Fixing arrangement

Fixing

The control devices Ø22.5 can be fixed in any position on panels of 1 to 6 mm thick ness. 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 lenses 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, lightened equally from the rear. The screws should be tightened adequately lo such an extent as to pierce through the paint on the panel from inside. These screws also ensure the earthing of the unit.



Electrical and mechanical characteristics

Environment

Standard conformity	: CSA - C22.2 No. 14-95, UL508, IEC 947 • 5 (1) 1990, IS 13947
Approval	: ASTA UK certified as per IEC 947 - 5 - (1) 1990
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 Position

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 4A, 415V AC														
	: DC13 0.5A 110V DC														
As per CSA - C22.2 No. 14-95, UL508	: A 600 Q600														
Terminal capacity	: minimum 1 x 0.5 mm', maximum 2 x 1.5 mm' or 1 x 2.5 mm'														
Terminal marking	: 1- 2 for NC, 3-4 for NO														
Short circuit protection	: 10 A cartridge ruse 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 I 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 (al 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 mm2, max. 2 x 1.5 mm2 or 1 x 2.5 mm2

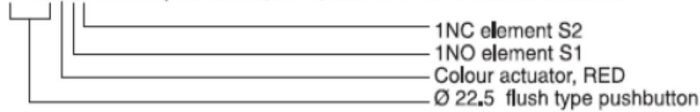
Control and signalling devices Ø 22.5

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

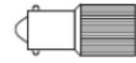
Voltage	: 6	12	24	30	48	60	130
Watts	: 1	2	2	2	2	2	2,6



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 White Green Red Amber Blue Clear Yellow

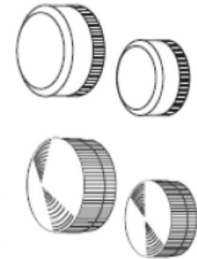
For pilot lights with filament bulb

For illuminated actuators with filament bulb (flush/projecting)

For pilot lights with LED

For illuminated actuators with LED (flush/projecting)

2PLL1	2PLL3	2PLL4	2PLL5	2PLL6	2PLL7	2PLL8
2LAL1	2LAL3	2LAL4	2LAL5	2LAL6	2LAL7	2LAL8
2PLL1L	2PLL3L	2PLL4L	2PLL5L	2PLL6L	2PLL7L	2PLL8L
2LAL1L	2LAL3L	2LAL4L	2LAL5L	2LAL6L	2LAL7L	2LAL8L



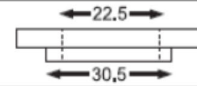
Push Push mechanism for converting spring return actuator into stay put type

Type No.: 2PPM



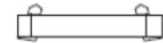
Adaptor for fixing Ø 22.5 devices in Ø 30.5 cutout.

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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METALLIC SERIES			
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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METALLIC SERIES			
MUSHROOM ACTUATORS			
	TYPE	COLOUR	ORDERING CODE
	Momentary Ø 40mm		
		Black	2AM2
		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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METALLIC SERIES			
MUSHROOM ACTUATORS			
	TYPE	COLOUR	ORDERING CODE
	Latching Ø 30mm		
		Black	2AMLS2
		Red	2AMLS4
	Momentary Ø 40mm	Black	2AM2
		Green	2AM3
		Red	2AM4
		Blue	2AM6
		Yellow	2AM8
	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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METALLIC SERIES

MUSHROOM ACTUATORS








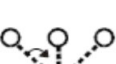
	TYPE	COLOUR	ORDERING CODE
	Latching Trigger Ø 40mm		
		Black	2AMLT2
		Red	2AMLT4
	Latching Trigger with key Ø 40mm		
		Black	2AMLTKB2
		Red	2AMLTKB4
	Latching Ø 60mm		
		Black	2AMLJ2
		Red	2AMLJ4
	Push-Pull Ø 60mm		
		Black	2AMPPJ2
		Red	2AMPPJ4
	Momentary Ø 60mm		
		Black	2AMJ2
		Green	2AMJ3
		Red	2AMJ4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

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METALLIC SERIES

SELECTOR ACTUATORS








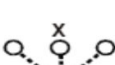

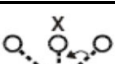
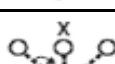
	TYPE		COLOUR	ORDERING CODE
	2 position LATCHING		Black	2AS2-2P
	With ext. knob			2AS2E-2P
	MOMENTARY			2AS2-2PSR
	With ext. knob			2AS2E-2PSR
	3 position STAY PUT		Black	2AS2-3P
	With ext. knob			2AS2E-3P
	MOMENTARY on both sides			2AS2-3PSR
	With ext. knob			2AS2E-3PSR
	MOMENTARY on right			2AS2-3PSRR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

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METALLIC SERIES

KEY SELECTOR ACTUATORS

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





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

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

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METALLIC SERIES

ILLUMINATED FLUSH ACTUATOR WITH LED/ LED BULB			
	TYPE	COLOUR	ORDERING CODE
	Illuminated Flush actuator, Momentary		
	Integral LED 6V, 12V, 24V, 48V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	White LED / White Lens	2ALRF1L(S)
		Green LED / Green Lens	2ALRF3L
		Red LED / Red Lens	2ALRF4L
		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 24V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	White LED Bulb / White Lens	2ALF1B(S)
		Green LED Bulb / Green Lens	2ALF3B
		Red LED Bulb / Red Lens	2ALF4B
		Amber LED Bulb / Amber Lens	2ALF5B
		Blue LED Bulb / Blue Lens	2ALF6B
		White LED Bulb / Clear Lens	2ALF7B(S)
	Yellow LED Bulb / Yellow Lens	2ALF8B	
LED Bulb	Please mention the voltage required after the ordering code		
	Integral LED 24V, 110V, 230V AC	White LED / White Lens	2ALRF1L(S)F
		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		
	Illuminated Projecting Actuator, Momentary		
	Integral LED 6V, 12V, 24V, 48V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	White LED / White Lens	2ALRP1L(S)
		Green LED / Green Lens	2ALRP3L
		Red LED / Red Lens	2ALRP4L
		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 24V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	White LED Bulb / White Lens	2ALP1B(S)
		Green LED Bulb / Green Lens	2ALP3B
		Red LED Bulb / Red Lens	2ALP4B
		Amber LED Bulb / Amber Lens	2ALP5B
		Blue LED Bulb / Blue Lens	2ALP6B
		White LED / Clear Lens	2ALP7L(S)
	Yellow LED Bulb / Yellow Lens	2ALP8B	
LED Bulb	Please mention the voltage required after the ordering code		
	Integral LED 24V, 110V, 230V AC	White LED / White Lens	2ALRP1LF(S)
		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		
	Illuminated Projecting Actuator, Push to ON & Push to Release		
	Integral LED 6V, 12V, 24V, 48V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	White LED / White Lens	2ALRPPP1L(S)
		Green LED / Green Lens	2ALRPPP3L
		Red LED / Red Lens	2ALRPPP4L
		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		

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METALLIC SERIES			
ILLUMINATED SELECTOR WITH FILAMENT BULB			
	TYPE	COLOUR	ORDERING CODE
	2 Position Stayput illuminated selector actuator		
	Filament bulb 6V to 130V AC/DC	White	2ASL1-2P
		Green	2ASL3-2P
		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			
	Filament bulb 24 V,48V,110V, 230V AC/DC	White	2ASLR1-2P
		Green	2ASLR3-2P
		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			
	Filament bulb 6V to 130V AC/DC	White	2ASL1-2PSR
		Green	2ASL3-2PSR
		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			
	Filament bulb 24 V,48V,110V, 230V AC/DC	White	2ASLR1-2PSR
		Green	2ASLR3-2PSR
		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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






METALLIC SERIES

ILLUMINATED SELECTOR ACTUATOR WITH LED

	TYPE	COLOUR	ORDERING CODE
	2 Position Illuminated Selector Actuator		
	Integral LED 6V, 12V, 24V, 48V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC 	White LED / White Lens	2ASLR1L(S)-2P
		Green LED / Green Lens	2ASLR3L-2P
		Red LED / Red Lens	2ASLR4L-2P
		Amber LED / Amber Lens	2ASLR5L-2P
		Blue LED / Blue Lens	2ASLR6L-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		
	LED Bulb, BA9S type 24V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC 	White LED Bulb / White Lens	2ASL1LB(S)-2P
		Green LED Bulb / Green Lens	2ASL3LB-2P
		Red LED Bulb / Red Lens	2ASL4LB-2P
		Amber LED Bulb / Amber Lens	2ASL5LB-2P
		Blue LED Bulb / Blue Lens	2ASL6LB-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	
	Integral LED 6V, 12V, 24V, 48V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC 	White LED Bulb / White Lens	2ASLR1L(S)-2PSR
		Green LED Bulb / Green Lens	2ASLR3L-2PSR
		Red LED Bulb / Red Lens	2ASLR4L-2PSR
		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 24V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC 	White LED Bulb / White Lens	2ASL1LB(S)-2PSR
		Green LED Bulb / Green Lens	2ASL3LB-2PSR
		Red LED Bulb / Red Lens	2ASL4LB-2PSR
		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
	3 Position Stayput Illuminated Selector Actuator		
	Stayput Filament bulb 6V to 130V AC/DC 	White	2ASL1-3P
		Green	2ASL3-3P
		Red	2ASL4-3P
		Amber	2ASL5-3P
		Blue	2ASL6-3P
		Clear	2ASL7-3P
		Yellow	2ASL8-3P
		Please mention the voltage required after the ordering code	
	Momentary Filament bulb 6V to 130V AC/DC 	White	2ASL1-3PSR
		Green	2ASL3-3PSR
		Red	2ASL4-3PSR
		Amber	2ASL5-3PSR
		Blue	2ASL6-3PSR
		Clear	2ASL7-3PSR
		Yellow	2ASL8-3PSR
		Please mention the voltage required after the ordering code	
	Stayput / Momentary Filament bulb 6V to 130V AC/DC 	White	2ASL1-3PSRL
		Green	2ASL3-3PSRL
		Red	2ASL4-3PSRL
		Amber	2ASL5-3PSRL
		Blue	2ASL6-3PSRL
		Clear	2ASL7-3PSRL
		Yellow	2ASL8-3PSRL
Please mention the voltage required after the ordering code			
Stayput / Momentary Filament bulb 6V to 130V AC/DC 	White	2ASL1-3PSRR	
	Green	2ASL3-3PSRR	
	Red	2ASL4-3PSRR	
	Amber	2ASL5-3PSRR	
	Blue	2ASL6-3PSRR	
	Clear	2ASL7-3PSRR	
	Yellow	2ASL8-3PSRR	
	Please mention the voltage required after the ordering code		
Direct Connection	Please mention the voltage required after the ordering code		
	3 Position Illuminated Selector Actuator		
	Stayput Filament Bulb 24V,48V,130V, 230V AC/DC 	White	2ASLR1-3P
		Green	2ASLR3-3P
		Red	2ASLR4-3P
		Amber	2ASLR5-3P
		Blue	2ASLR6-3P
		Clear	2ASLR7-3P
		Yellow	2ASLR8-3P
		Please mention the voltage required after the ordering code	
	Momentary Filament Bulb 24V,48V,130V, 230V AC/DC 	White	2ASLR1-3PSR
		Green	2ASLR3-3PSR
		Red	2ASLR4-3PSR
		Amber	2ASLR5-3PSR
		Blue	2ASLR6-3PSR
		Clear	2ASLR7-3PSR
		Yellow	2ASLR8-3PSR
		Please mention the voltage required after the ordering code	
	Stayput / Momentary Filament Bulb 24V,48V,130V, 230V AC/DC 	White	2ASLR1-3PSRL
		Green	2ASLR3-3PSRL
		Red	2ASLR4-3PSRL
		Amber	2ASLR5-3PSRL
		Blue	2ASLR6-3PSRL
		Clear	2ASLR7-3PSRL
		Yellow	2ASLR8-3PSRL
Please mention the voltage required after the ordering code			
Stayput / Momentary Filament Bulb 24V,48V,130V, 230V AC/DC 	White	2ASLR1-3PSRR	
	Green	2ASLR3-3PSRR	
	Red	2ASLR4-3PSRR	
	Amber	2ASLR5-3PSRR	
	Blue	2ASLR6-3PSRR	
	Clear	2ASLR7-3PSRR	
	Yellow	2ASLR8-3PSRR	
	Please mention the voltage required after the ordering code		
Connection with Resistor	Please mention the voltage required after the ordering code		

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METALLIC SERIES

ILLUMINATED SELECTOR WITH LED

	TYPE	COLOUR	ORDERING CODE
	3 Position illuminated selector actuator		
	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		
	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
Integral LED	Please mention the voltage required after the ordering code		
	3 Position illuminated selector actuator with LED Bulb		
	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		
	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
LED Bulb	Please mention the voltage required after the ordering code		

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Control & Signalling Devices 22.5 Ø

METALLIC SERIES			
PILOT LIGHTS WITH FILAMENT BULB			
	TYPE	COLOUR	ORDERING CODE
	Pilot Light		
	Filament Bulb 6V to 130V AC/DC	White	2PLB1
		Green	2PLB3
		Red	2PLB4
		Amber	2PLB5
		Blue	2PLB6
		Clear	2PLB7
		Yellow	2PLB8
Direct Connection	Please mention the voltage required after the ordering code		
	Filament Bulb 24V,48V,110V, 230V AC/DC	White	2PLBR1
		Green	2PLBR3
		Red	2PLBR4
		Amber	2PLBR5
		Blue	2PLBR6
		Clear	2PLBR7
		Yellow	2PLBR8
Connection with Resistor	Please mention the voltage required after the ordering code		
	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			
Connection with Transformer	XX - Primary Voltage YYY - Secondary Voltage		


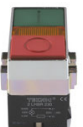


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Control & Signalling Devices 22.5 Ø

METALLIC SERIES			
PILOT LIGHTS			
	TYPE	COLOUR	ORDERING CODE
	Pilot Light with Integral LED		
	Integral LED 6V, 12V, 24V, 48V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	White LED / White Lens	2PLBR1L(S)
		Green LED / Green Lens	2PLBR3L
		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		
Integral LED	Please mention the voltage required after the ordering code		
	Integral LED, Flasher 6V, 12V, 24V, 48V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	White LED / White Lens	2PLBR1LF(S)
		Green LED / Green Lens	2PLBR3LF
		Red LED / Red Lens	2PLBR4LF
		Amber LED / Amber Lens	2PLBR5LF
		Blue LED / Blue Lens	2PLBR6LF
		White LED / Clear Lens	2PLBR7LF(S)
Yellow LED / Yellow Lens	2PLBR8LF		
Flasher	Please mention the voltage required after the ordering code		
	Integral LED, Universal 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
		White LED / Clear Lens	2PLBR7LU(S)
Yellow LED / Yellow Lens	2PLBR8LU		
Universal	Please mention the voltage required after the ordering code		
	Integral LED 415VAC	White LED / White Lens	2PLBR1L(S)
		Green LED / Green Lens	2PLBR3L
		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		
Integral LED	Please mention the voltage required after the ordering code		
	Pilot Light with LED Bulb		
	LED Bulb, BA9S type 24V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	White LED Bulb / White Lens	2PLB1LB(S)
		Green LED Bulb / Green Lens	2PLB3LB
		Red LED Bulb / Red Lens	2PLB4LB
		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		
LED Bulb	Please mention the voltage required after the ordering code		
	LED Bulb, BA9S type		
	Primary volt.	Sec. Volt.	White LED Bulb / White Lens
	110 VAC	6	2PLBT1LB(S)XX / YYY
	110 VAC	12	Green LED Bulb / Green Lens
	110 VAC	24	2PLBT3LBXX / YYY
	110 VAC	24	Red LED Bulb / Red Lens
	240 VAC	6	2PLBT4LBXX / YYY
	240 VAC	12	Amber LED Bulb / Amber Lens
240 VAC	24	2PLBT5LBX X/ YYY	
240 VAC	24	Blue LED Bulb / Blue Lens	
240 VAC	24	2PLBT6LBXX / YYY	
240 VAC	24	White LED Bulb / Clear Lens	
240 VAC	24	2PLBT7LB(S)XX / YYY	
240 VAC	24	Yellow LED Bulb / Yellow Lens	
240 VAC	24	2PLBT8LBXX / YYY	
Connection with Transformer	XX - Primary Voltage YYY - Secondary Voltage		





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Control & Signalling Devices 22.5 Ø

METALLIC SERIES			
TWIN ILLUMINATED ACTUATORS WITH FILAMENT BULB			
	TYPE	COLOUR	ORDERING CODE
	Twin Illuminated 1 Flush, 1 Projecting (IO) Mark		
	Filament bulb 6V to 130V AC/DC		2ATL5 F3P4 (IO)
		Red button	
		Green button	
	Amber lens		
Direct Connection	Please mention the voltage required after the ordering code		
	Filament bulb 24 V,48V,110V, 230V AC/DC		2ATLR5 F3P4 (IO)
		Red button	
		Green button	
		Amber lens	
Connection with Resistor	Please mention the voltage required after the ordering code		
	Twin Illuminated Double Flush, (IO) Mark		
	Filament bulb 6V to 130V AC/DC		2ATL5 F3F4 (IO)
		Red button	
		Green button	
	Amber lens		
Direct Connection	Please mention the voltage required after the ordering code		
	Filament bulb 24 V,48V,110V, 230V AC/DC		2ATLR5 F3F4 (IO)
		Red button	
		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 ACTUATORS WITH LED			
	TYPE	COLOUR	ORDERING CODE
	Twin Illuminated 1 Flush, 1 Projecting (IO) Mark		
	Integral LED 6V, 12V, 24V, 48V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	Green	2ATLR5LF3P4 (IO)
		Red	
		Amber lens	
Integral LED	Please mention the voltage required after the ordering code		
	LED Bulb,BA9S type 24V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	Green	2ATL5LBF3P4 (IO)
		Red	
		Amber lens	
	LED Bulb	Please mention the voltage required after the ordering code	
Twin Illuminated Double Flush, (IO) Mark			
	Integral LED 6V, 12V, 24V, 48V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	Green	2ATLR5LF3F4 (IO)
		Red	
		Amber lens	
	Integral LED	Please mention the voltage required after the ordering code	
	LED Bulb,BA9S type 24V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	Green	2ATL5LBF3F4 (IO)
		Red	
		Amber lens	
	LED Bulb	Please mention the voltage required after the ordering code	

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Control & Signalling Devices 22.5 Ø

METALLIC SERIES

ILLUMINATED MUSHROOM WITH BULB

	TYPE	COLOUR	ORDERING CODE
	Illuminated Mushroom, Momentary		
	Filament bulb 6V to 130V AC/DC	Red	2ALM4
Direct Connection	Please mention the voltage required after the ordering code		
	Filament bulb 24 V,48V,110V, 230V AC/DC	Red	2ALRM4
Connection with Resistor	Please mention the voltage required after the ordering code		
	Illuminated Mushroom, Push Pull		
	Filament bulb 6V to 130V AC/DC	Red	2ALMPP4
Direct Connection	Please mention the voltage required after the ordering code		
	Filament bulb 24 V,48V,110V, 230V AC/DC	Red	2ALRMPP4
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 6V, 12V, 24V, 48V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	Red	2ALRM4L
Integral LED	Please mention the voltage required after the ordering code		
	LED Bulb, BA9S type		
	24V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	Red	2ALM4LB
LED Bulb	Please mention the voltage required after the ordering code		
	Illuminated Mushroom, Push Pull		
	Integral LED 6V, 12V, 24V, 48V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	Red	2ALRMPP4L
Integral LED	Please mention the voltage required after the ordering code		
	LED Bulb, BA9S type		
	24V AC/DC, 110VAC, 110VDC, 230VAC, 220VDC	Red	2ALMPP4LB
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 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	

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