

# 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:

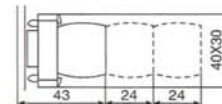
- Economy of space
- Aesthetically elegant
- SELF WIPING CONTACT
- Robust in materials of construction
- Simple to fix - screw driver is all that required
- Safe in operation
- Fixing method unaffected by excessive vibration-unit does not rotate
- Very good flame resistance
- Protection against electric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

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

Specific models of pilot lights are available with integral LED chips suitable for operating over wide range of voltage 24V to 230V AC or DC.

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

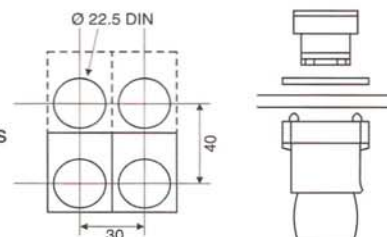
### Terminals

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

#### Contact Block

|                               |  |
|-------------------------------|--|
| Rated insulation voltage      | : 500 V                                    |
| Rated thermal current         | : 10 A                                     |
| Contact operation             | : <b>Self wiping</b> , slow break NO or NC |
| Make and break capacity       |  |
| As per IEC 947 - 5 - (1) 1990 |  |

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    4        3        2                    A    0.5    0.2                                    |

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

Current consumptions (applicable to all colours)

|   |                 |
|---|-----------------|
| 24 VAC/DC, 110 VAC & 240 VAC  | : max. 20 mA    |
| 110 VDC   | : max. 15 mA    |
| 220 VDC   | : max. 10 mA    |
| Service life (at nominal voltage and at ambient temperature of 25° C) | : 100,000 hours |

Voltage limits (nominal voltage) : < 20% of rated voltage >







Short circuit protection : on specific request

Terminal capacity : min. 1 x 0.5 mm<sup>2</sup>, max. 2 x 1.5 mm<sup>2</sup> or 1 x 2.5 mm<sup>2</sup>

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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          |
|  |                           |        |               |
|   | Projecting with O marking | White  | 2AP10         |
|   |                           | Black  | 2AP20         |
|   |                           | Green  | 2AP30         |
|   |                           | Red    | 2AP40         |
|   |                           | Blue   | 2AP60         |
|   |                           | Yellow | 2AP80         |
|  |                           |        |               |
|   | 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          |
|   |                           |        |               |
| *All actuators are supplied with fixing flange                                      |                           |        |               |

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

\*All actuators are supplied with fixing flange

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### MUSHROOM ACTUATORS

|   | TYPE                    | COLOUR | ORDERING CODE |
|---|-------------------------|--------|---------------|
|    |                         |        |               |
|   |                         |        |               |
|   | <b>Latching Trigger</b> | Black  | 2AMLT2        |
|   | <b>Ø 40mm</b>           | Red    | 2AMLT4        |
|   |                         |        |               |
|   |                         |        |               |
|   |                         |        |               |
|   |                         |        |               |
|   |                         |        |               |
|   | <b>Latching Trigger</b> | Black  | 2AMLTKB2      |
|   | <b>with key 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       |
|   |                         |        |               |
|   |                         |        |               |
|   |                         |        |               |
|  |                         |        |               |
|   |                         | Black  | 2AMJ2         |
|   | <b>Momentary</b>        | Green  | 2AMJ3         |
|   | <b>Ø 60mm</b>           | Red    | 2AMJ4         |
|   |                         | Blue   | 2AMJ6         |
|   |                         | Yellow | 2AMJ8         |
|   |                         |        |               |
|   |                         |        |               |

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

\*All actuators are supplied with fixing flange




## Control & Signalling Devices 22.5 Ø METALLIC SERIES

\*All Actualators are supplied with fixing flange

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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  |               |
|   |                     |        |               |





Note : Other colours as per request



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| ILLUMINATED FLUSH WITH BULB   |   |        |                |
|---|---|--------|----------------|
|   | TYPE  | COLOUR | ORDERING CODE  |
|    | Illuminated Flush, Momentary                                |        |                |
|   |   |        |                |
|    |   | 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          |
|   |   |        |                |
| Direct Connection   | Please mention the voltage required after the ordering code |        |                |
|   |   | White  | 2ALRF1         |
|   | <b>Filament Bulb</b>  | Green  | 2ALRF3         |
|   | <b>24V, 48V, 110V and 230 V</b>                             | Red    | 2ALRF4         |
|   | <b>AC/DC</b>  | Amber  | 2ALRF5         |
|   |   | Blue   | 2ALRF6         |
|   |   | Clear  | 2ALRF7         |
|   |   | Yellow | 2ALRF8         |
|   |   |        |                |
| Connection with Resistor  | Please mention the voltage required after the ordering code |        |                |
|  |   | White  | 2ALRF1 230V AC |
|   | <b>Filament Bulb</b>  | Green  | 2ALRF3 230V AC |
|   | <b>230V AC</b>  | Red    | 2ALRF4 230V AC |
|   |   | Amber  | 2ALRF5 230V AC |
|   |   | Blue   | 2ALRF6 230V AC |
|   |   | Clear  | 2ALRF7 230V AC |
|   |   | Yellow | 2ALRF8 230V AC |
|   |   |        |                |
| Connection with Resistor+Diode  |   |        |                |
|   |   |        |                |





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| ILLUMINATED FLUSH ACTUATOR WITH LED   |   |                               |                              |
|---|---|-------------------------------|------------------------------|
|    | TYPE  |                               | ORDERING CODE                |
|   | Illuminated Flush actuator, spring return                   |                               |                              |
|    |   |                               |                              |
|   |   | Yellow LED / White Lens       | 2ALRF1L                      |
|   |   | White LED / White Lens        | 2ALRF1L(S)                   |
|   |   | Green LED / Green Lens        | 2ALRF3L                      |
|   | <b>Integral LED</b>   |                               | Red LED / Red Lens           |
|   | <b>6V, 12V, 24V, 48V AC/DC</b>                              |                               | Amber LED / Amber Lens       |
|   | <b>110VAC, 110VDC,</b>                                      |                               | Blue LED / Blue Lens         |
|   | <b>230VAC, 220VDC</b>                                       |                               | Yellow LED / Clear Lens      |
|   |   | White LED / Clear Lens        | 2ALRF7L(S)                   |
|   |   | Yellow LED / Yellow Lens      | 2ALRF8L                      |
| Integral  | Please mention the voltage required after the ordering code |                               |                              |
|  |   |                               |                              |
|   | <b>LED Bulb, BA9S type</b>                                  |                               | Yellow LED Bulb / White Lens |
|   | <b>24V AC/DC,</b>   |                               | White LED Bulb / White Lens  |
|   | <b>110VAC, 110VDC</b>                                       |                               | Green LED Bulb / Green Lens  |
|   | <b>230VAC, 220VDC</b>                                       |                               | Red LED Bulb / Red Lens      |
|   |   | 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                      |
| Bayonet Bulb  | Please mention the voltage required after the ordering code |                               |                              |
|  |   |                               |                              |
|   |   | White LED / White Lens        | 2ALRF1L                      |
|   | <b>Integral LED</b>   |                               | White LED / White Lens       |
|   | <b>24V, 110V, 230V, AC</b>                                  |                               | Green LED / Green Lens       |
|   |   | Red LED / Red Lens            | 2ALRF4L                      |
|   |   | 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                      |
| Flasher   | Please mention the voltage required after the ordering code |                               |                              |

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| ILLUMINATED PROJECTING WITH BULB  |   |        |                |
|---|---|--------|----------------|
|   | TYPE  | COLOUR | ORDERING CODE  |
|    | Illuminated Projecting, Momentary                           |        |                |
|   |   |        |                |
|    |   | White  | 2ALP1          |
|   | <b>Filament Bulb</b>  | Green  | 2ALP3          |
|   | <b>6V to 130V AC/DC with</b>                                | Red    | 2ALP4          |
|   |   | Amber  | 2ALP5          |
|   |   | Blue   | 2ALP6          |
|   |   | Clear  | 2ALP7          |
|   |   | Yellow | 2ALP8          |
|   |   |        |                |
| Direct Connection   | Please mention the voltage required after the ordering code |        |                |
|  |   | White  | 2ALRP1         |
|   | <b>Filament Bulb</b>  | Green  | 2ALRP3         |
|   | <b>24V, 48V, 110V and 230 V</b>                             | Red    | 2ALRP4         |
|   | <b>AC/DC</b>  | Amber  | 2ALRP5         |
|   |   | Blue   | 2ALRP6         |
|   |   | Clear  | 2ALRP7         |
|   |   |        |                |
|   |   |        |                |
| Connection with Resistor  | Please mention the voltage required after the ordering code |        |                |
|  |   | White  | 2ALRP1 230V AC |
|   | <b>Filament Bulb</b>  | Green  | 2ALRP3 230V AC |
|   | <b>230V AC</b>  | Red    | 2ALRP4 230V AC |
|   |   | Amber  | 2ALRP5 230V AC |
|   |   | Blue   | 2ALRP6 230V AC |
|   |   | Clear  | 2ALRP7 230V AC |
|   |   | Yellow | 2ALRP8 230V AC |
|   |   |        |                |
| Connection with Resistor+Diode  |   |        |                |

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| ILLUMINATED PROJECTING WITH LED   |   |                               |               |
|---|---|-------------------------------|---------------|
|    | TYPE  | COLOUR                        | ORDERING CODE |
|   | Illuminated Projecting actuator, spring return              |                               |               |
|    |   |                               |               |
|   |   | Yellow LED / White Lens       | 2ALRP1L       |
|   | <b>Integral LED</b>   | White LED / White Lens        | 2ALRP1L(S)    |
|   | <b>6V, 12V, 24V, 48V AC/DC</b>                              | Green LED / Green Lens        | 2ALRP3L       |
|   | <b>110VAC, 110VDC,</b>                                      | Red LED / Red Lens            | 2ALRP4L       |
|   | <b>230VAC, 220VDC</b>                                       | 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  | Please mention the voltage required after the ordering code |                               |               |
|  |   |                               |               |
|   |   | Yellow LED Bulb / White Lens  | 2ALP1LB       |
|   | <b>LED Bulb, BA9S type</b>                                  | White LED Bulb / White Lens   | 2ALP1LB(S)    |
|   | <b>24V AC/DC,</b>   | Green LED Bulb / Green Lens   | 2ALP3LB       |
|   | <b>110VAC, 110VDC</b>                                       | Red LED Bulb / Red Lens       | 2ALP4LB       |
|   | <b>230VAC, 220VDC</b>                                       | 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       |
| Bayonet Bulb  | Please mention the voltage required after the ordering code |                               |               |
|  |   |                               |               |
|   |   | White LED / White Lens        | 2ALRP1LF      |
|   | <b>Integral LED</b>   | White LED / White Lens        | 2ALRP1LF(S)   |
|   | <b>24V, 110V, 230V, AC</b>                                  | 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        | 2ALRP7LF(S)   |
|   |   | Yellow LED / Yellow Lens      | 2ALRP8LF      |
| Flasher   | Please mention the voltage required after the ordering code |                               |               |



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### ILLUMINATED SELECTOR WITH BULB

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

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**Control & Signalling Devices 22.5 Ø**  
**METALLIC SERIES**

| ILLUMINATED SELECTOR WITH LED   |   |               |                               |                  |      |
|---|---|---------------|-------------------------------|------------------|------|
|    | TYPE  |               | COLOUR                        | ORDERING CODE    |      |
|   | 2 Position Illuminated Selector Actuator  |               |                               |                  |      |
|    |   |               | Yellow LED / White Lens       | 2ASLR1L-XXXXX    |      |
|   |   |               | White LED / White Lens        | 2ASLR1L(S)-XXXXX |      |
|   | Integral LED  |               | Green LED / Green Lens        | 2ASLR3L-XXXXX    |      |
|   | 6V, 12V, 24V, 48V AC/DC   |               | Red LED / Red Lens            | 2ASLR4L-XXXXX    |      |
|   | 110VAC, 110VDC,   |               | Amber LED / Amber Lens        | 2ASLR5L-XXXXX    |      |
|   | 230VAC, 220VDC  |               | Blue LED / Blue Lens          | 2ASLR6L-XXXXX    |      |
|   |   |               | Yellow LED / Clear Lens       | 2ASLR7L-XXXXX    |      |
|   |   |               | White LED / Clear Lens        | 2ASLR7L(S)-XXXXX |      |
|   |   |               | Yellow LED / Yellow Lens      | 2ASLR8L-XXXXX    |      |
| Integral LED  | Please mention the voltage required after the ordering code                         |               |                               |                  |      |
|  |   |               | Yellow LED Bulb / White Lens  | 2ASL1LB-XXXXX    |      |
|   |   |               | White LED Bulb / White Lens   | 2ASL1LB(S)-XXXXX |      |
|   | LED Bulb, BA9S type   |               | Green LED Bulb / Green Lens   | 2ASL3LB-XXXXX    |      |
|   | 24V AC/DC,  |               | Red LED Bulb / Red Lens       | 2ASL4LB-XXXXX    |      |
|   | 110VAC, 110VDC  |               | Amber LED Bulb / Amber Lens   | 2ASL5LB-XXXXX    |      |
|   | 230VAC, 220VDC  |               | Blue LED Bulb / Blue Lens     | 2ASL6LB-XXXXX    |      |
|   |   |               | Yellow LED Bulb / Clear Lens  | 2ASL7LB-XXXXX    |      |
|   |   |               | White LED Bulb/ Clear Lens    | 2ASL7LB(S)-XXXXX |      |
|   |   |               | Yellow LED Bulb / Yellow Lens | 2ASL8LB-XXXXX    |      |
| LED Bulb  | Please mention the voltage required after the ordering code                         |               |                               |                  |      |
|  |   |               | Yellow LED / White Lens       | 2ASLR1LF-XXXXX   |      |
|   |   |               | White LED / White Lens        | 2ASLR1L(S)-XXXXX |      |
|   | Integral LED  |               | Green LED / Green Lens        | 2ASLR3LF-XXXXX   |      |
|   | 24V, 110V, 230V, AC   |               | Red LED / Red Lens            | 2ASLR4LF-XXXXX   |      |
|   |   |               | Amber LED / Amber Lens        | 2ASLR5LF-XXXXX   |      |
|   |   |               | Blue LED / Blue Lens          | 2ASLR6LF-XXXXX   |      |
|   |   |               | Yellow LED / Clear Lens       | 2ASLR7LF-XXXXX   |      |
|   |   |               | White LED / Clear Lens        | 2ASLR7L(S)-XXXXX |      |
|   |   |               | Yellow LED / Yellow Lens      | 2ASLR8LF-XXXXX   |      |
| Flasher   | Please mention the voltage required after the ordering code                         |               |                               |                  |      |
| 1   |  | Stayput       |                               | XXXXX            | 2P   |
| 2   |  | Spring return |                               |                  | 2PSR |
| XXXXX - Denotes Standard Execution  |   |               |                               |                  |      |

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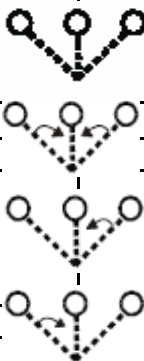
Control & Signalling Devices 22.5 Ø  
METALLIC SERIES

## ILLUMINATED SELECTOR WITH BULB

|   |  | TYPE  | COLOUR  | ORDERING CODE   |
|---|--|---|---|---|
|    |  | 3 Position Stayput illuminated selector actuator                                    |   |   |
|    |  | Filament bulb<br>6V to 130V AC/DC   | White<br>Green<br>Red<br>Amber<br>Blue<br>Clear<br>Yellow | 2ASL1-3P<br>2ASL3-3P<br>2ASL4-3P<br>2ASL5-3P<br>2ASL6-3P<br>2ASL7-3P<br>2ASL8-3P  |
| Direct Connection   |  | Please mention the voltage required after the ordering code                         |   |   |
|   |  | Filament bulb<br>24 V,48V,110V,230V AC/DC   | White<br>Green<br>Red<br>Amber<br>Blue<br>Clear<br>Yellow | 2ASLR1-3P<br>2ASLR3-3P<br>2ASLR4-3P<br>2ASLR5-3P<br>2ASLR6-3P<br>2ASLR7-3P<br>2ASLR8-3P   |
| Connection with Resistor  |  | Please mention the voltage required after the ordering code                         |   |   |
|  |  | Filament bulb<br>230V AC  | White<br>Green<br>Red<br>Amber<br>Blue<br>Clear<br>Yellow | 2ASLR1-3P 230V AC<br>2ASLR3-3P 230V AC<br>2ASLR4-3P 230V AC<br>2ASLR5-3P 230V AC<br>2ASLR6-3P 230V AC<br>2ASLR7-3P 230V AC<br>2ASLR8-3P 230V AC |
| Connection with Resistor+Diode  |  |   |   |   |
| SELECTOR  | 1  |  | 3 Position Spring return                                  | Replace 3P with 3PSR  |
|   | 2  |  | 3 Position Spring return Left                             | Replace 3P with 3PSRL   |
|   | 3  |  | 3 Position Spring return Right                            | Replace 3P with 3PSRR   |
|   | Example : 3 Position Spring return right Illuminated Selector Actuator, Red, 110V DC |   |   |   |
|   | Ordering Code : 2ASLR4 - 3PSRR 110V DC   |   |   |   |

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Control & Signalling Devices 22.5 Ø  
METALLIC SERIES

| ILLUMINATED SELECTOR WITH LED   |   |  |                                    |                   |       |
|---|---|--|------------------------------------|-------------------|-------|
|    | TYPE  |  | COLOUR                             | ORDERING CODE     |       |
|   | 3 Position Illuminated Selector Actuator  |  |                                    |                   |       |
|    |   |  | Yellow LED / White Lens            | 2ASLR1L-XXXXX     |       |
|   |   |  | White LED / White Lens             | 2ASLR1L(S)-XXXXX  |       |
|   | Integral LED  |  | Green LED / Green Lens             | 2ASLR3L-XXXXX     |       |
|   | 6V, 12V, 24V, 48V AC/DC   |  | Red LED / Red Lens                 | 2ASLR4L-XXXXX     |       |
|   | 110VAC, 110VDC,   |  | Amber LED / Amber Lens             | 2ASLR5L-XXXXX     |       |
|   | 230VAC, 220VDC  |  | Blue LED / Blue Lens               | 2ASLR6L-XXXXX     |       |
|   |   |  | Yellow LED / Clear Lens            | 2ASLR7L-XXXXX     |       |
|   |   |  | White LED / Clear Lens             | 2ASLR7L(S)-XXXXX  |       |
|   |   |  | Yellow LED / Yellow Lens           | 2ASLR8L-XXXXX     |       |
| Integral LED  | Please mention the voltage required after the ordering code                         |  |                                    |                   |       |
|  |   |  | Yellow LED Bulb / White Lens       | 2ASL1LB-XXXXX     |       |
|   |   |  | White LED Bulb / White Lens        | 2ASL1LB(S)-XXXXX  |       |
|   | LED Bulb, BA9S type   |  | Green LED Bulb / Green Lens        | 2ASL3LB-XXXXX     |       |
|   | 24V AC/DC,  |  | Red LED Bulb / Red Lens            | 2ASL4LB-XXXXX     |       |
|   | 110VAC, 110VDC  |  | Amber LED Bulb / Amber Lens        | 2ASL5LB-XXXXX     |       |
|   | 230VAC, 220VDC  |  | Blue LED Bulb / Blue Lens          | 2ASL6LB-XXXXX     |       |
|   |   |  | Yellow LED Bulb / Clear Lens       | 2ASL7LB-XXXXX     |       |
|   |   |  | White LED Bulb/ Clear Lens         | 2ASL7LB(S)-XXXXX  |       |
|   |   |  | Yellow LED Bulb / Yellow Lens      | 2ASL8LB-XXXXX     |       |
| LED Bulb  | Please mention the voltage required after the ordering code                         |  |                                    |                   |       |
|  |   |  | Yellow LED / White Lens            | 2ASLR1LF-XXXXX    |       |
|   |   |  | White LED / White Lens             | 2ASLR1L(S)-XXXXX  |       |
|   | Integral LED  |  | Green LED / Green Lens             | 2ASLR3LF-XXXXX    |       |
|   | 24V, 110V, 230V, AC   |  | Red LED / Red Lens                 | 2ASLR4LF-XXXXX    |       |
|   |   |  | Amber LED / Amber Lens             | 2ASLR5LF-XXXXX    |       |
|   |   |  | Blue LED / Blue Lens               | 2ASLR6LF-XXXXX    |       |
|   |   |  | Yellow LED / Clear Lens            | 2ASLR7LF-XXXXX    |       |
|   |   |  | White LED / Clear Lens             | 2ASLR7LF(S)-XXXXX |       |
|   |   |  | Yellow LED / Yellow Lens           | 2ASLR8LF-XXXXX    |       |
| Flasher   | Please mention the voltage required after the ordering code                         |  |                                    |                   |       |
|   |   |  |                                    |                   | XXXXX |
| 1   |  |  | Stayput                            |                   | 3P    |
| 2   |   |  | Spring return                      |                   | 3PSR  |
| 3   |   |  | Spring return Right                |                   | 3PSRR |
| 4   |   |  | Spring return Left                 |                   | 3PSRL |
|   |   |  | XXXXX - Denotes Standard Execution |                   |       |



# TEKNIC

## Control & Signalling Devices 22.5 Ø METALLIC SERIES

### PILOT LIGHTS WITH BULB

|  | TYPE                                      | COLOUR | ORDERING CODE                                   |
|--|---|--------|---|
|               | <b>Pilot Light</b>                        |        |   |
|  |   |        |   |
|               |   | White  | 2PLB1   |
|  |   | Green  | 2PLB3   |
|  | <b>Filament Bulb</b>                      | Red    | 2PLB4   |
|  | <b>6V to 130V AC/DC</b>                   | Amber  | 2PLB5   |
|  |   | Blue   | 2PLB6   |
|  |   | Clear  | 2PLB7   |
|  |   | Yellow | 2PLB8   |
|  |   |        |   |
| Direct Connection  |   |        |   |
|              |   | White  | 2PLBR1  |
|  |   | Green  | 2PLBR3  |
|  | <b>Filament Bulb</b>                      | Red    | 2PLBR4  |
|  | <b>24V, 48V, 110V, 230V, AC/DC</b>        | Amber  | 2PLBR5  |
|  |   | Blue   | 2PLBR6  |
|  |   | Clear  | 2PLBR7  |
|  |   | Yellow | 2PLBR8  |
|  |   |        |   |
| Connection with Resistor   |   |        |   |
|             |   | White  | 2PLBR1240AC                                     |
|  |   | Green  | 2PLBR3240AC                                     |
|  | <b>Filament Bulb</b>                      | Red    | 2PLBR4240AC                                     |
|  | <b>230V AC</b>                            | Amber  | 2PLBR5240AC                                     |
|  |   | Blue   | 2PLBR6240AC                                     |
|  |   | Clear  | 2PLBR7240AC                                     |
|  |   | Yellow | 2PLBR8240AC                                     |
|  |   |        |   |
| Connection with Resistor+Diode   |   |        |   |
|             |   | White  | 2PLBT1XX/YYY                                    |
|  |   | Green  | 2PLBT3XX/YYY                                    |
|  |   | Red    | 2PLBT4XX/YYY                                    |
|  | <b>Filament Bulb</b>                      | Amber  | 2PLBT5XX/YYY                                    |
|  | <b>Primary volt.      Secondary Volt.</b> | Blue   | 2PLBT6XX/YYY                                    |
|  | <b>110 V                  6V</b>          | Clear  | 2PLBT7XX/YYY                                    |
|  | <b>                         12V</b>       | Yellow | 2PLBT8XX/YYY                                    |
|  | <b>230 V                  24V</b>         |        |   |
| Connection with Transformer  |   |        | XX - Secondary Voltage<br>YYY - Primary Voltage |
| e.g Transformer type pilot light, red colour, 220 V input and 24 output. Type no. 2PLBT4220/24 |   |        |   |

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## Control & Signalling Devices 22.5 Ø METALLIC SERIES

### PILOT LIGHTS WITH LED

|   | Type   | Colour of Lens / LED          | Ordering Code |
|---|--|-------------------------------|---------------|
|    | <b>Pilot Light</b>   |                               |               |
|   |  |                               |               |
|    | <b>Integral LED</b><br><b>6V, 12V, 24V, 48V AC/DC</b><br><b>110VAC, 110VDC,</b><br><b>230VAC, 220VDC</b>   | Yellow LED / White Lens       | 2PLBR1L       |
|   |  | 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       |
|   |  | Yellow LED / Clear Lens       | 2PLBR7L       |
|   |  | White LED / Clear Lens        | 2PLBR7L(S)    |
|   |  | Yellow LED / Yellow Lens      | 2PLBR8L       |
| <b>Integral</b>   | Please mention the voltage required after the ordering code  |                               |               |
|  | <b>LED Bulb</b><br><b>BA9S type</b><br><b>24V AC/DC,</b><br><b>110VAC, 110VDC</b><br><b>230VAC, 220VDC</b> | Yellow LED Bulb / White Lens  | 2PLB1LB       |
|   |  | 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       |
|   |  | Yellow LED Bulb / Clear Lens  | 2PLB7LB       |
|   |  | White LED Bulb / Clear Lens   | 2PLB7LB(S)    |
|   |  | Yellow LED Bulb / Yellow Lens | 2PLB8LB       |
| <b>LED Bulb</b>   | Please mention the voltage required after the ordering code  |                               |               |
|  | <b>Integral LED</b><br><b>24V, 110V, 230V, AC</b>  | Yellow LED / White Lens       | 2PLBR1LF      |
|   |  | 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      |
|   |  | Yellow LED / Clear Lens       | 2PLBR7LF      |
|   |  | White LED / Clear Lens        | 2PLBR7LF(S)   |
|   |  | Yellow LED / Yellow Lens      | 2PLBR8LF      |
| <b>Flasher</b>  | Please mention the voltage required after the ordering code  |                               |               |
|  | <b>Integral LED</b><br><b>24V upto 240V AC / DC</b>  | Yellow LED / White Lens       | 2PLBR1LU      |
|   |  | 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      |
| <b>Universal</b>  |  |                               |               |

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Control & Signalling Devices 22.5 Ø  
METALLIC SERIES





## TWIN ILLUMINATED WITH FILAMENT BULB

|   |   |              |                          |
|---|---|--------------|--------------------------|
|    | Type  | COLOUR       | ORDERED CODE             |
|   | Twin Illuminated 1 Flush, 1 Projecting (IO) Marked          |              |                          |
|    | 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                         |   |              |                          |
|  | 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 |              |                          |
|  | Filament bulb   | Red button   | 2ATLR5 F3P4 (IO) 230V AC |
|   | 230V AC   | Green button |                          |
|   |   | Amber lens   |                          |
| Connection with   |   |              |                          |
| Resistor+Diode  |   |              |                          |

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Control & Signalling Devices 22.5 Ø  
METALLIC SERIES

## TWIN ILLUMINATED WITH LED





|   | TYPE  | COLOUR     | ORDERING CODE     |
|---|---|------------|-------------------|
|    | Twin Illuminated, Flush (IO) Marked                         |            |                   |
|    | <b>Integral LED</b>   | Green      | 2ATLR5LF3F4 (IO)  |
|   | 6V, 12V, 24V, 48V AC/DC                                     | Red        |                   |
|   | 110VAC, 110VDC,   | Amber lens |                   |
|   | 230VAC, 220VDC  |            |                   |
|   | Please mention the voltage required after the ordering code |            |                   |
| Integral LED  |   |            |                   |
|   | <b>LED Bulb, BA9S type</b>                                  | Green      | 2ATL5LBF3F4 (IO)  |
|   | 24V AC/DC,  | Red        |                   |
|   | 110VAC, 110VDC  | Amber lens |                   |
|   | 230VAC, 220VDC  |            |                   |
|   |   |            |                   |
|   |   |            |                   |
| LED Bulb  | Please mention the voltage required after the ordering code |            |                   |
|  | <b>Integral LED</b>   | Green      | 2ATLR5LF3F4 (IO)F |
|   | 24V, 110V, 230V, AC   | Red        |                   |
|   |   | Amber lens |                   |
|   |   |            |                   |
|   |   |            |                   |
| Flasher   | Please mention the voltage required after the ordering code |            |                   |



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## Control & Signalling Devices 22.5 Ø METALLIC SERIES

### TWIN ILLUMINATED WITH BULB

|    | Type                               | COLOUR       | ORDERED CODE             |
|---|------------------------------------|--------------|--------------------------|
|   | Twin Illuminated Flush (IO) Marked |              |                          |
|    | 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                         |                                    |              |                          |
|  | Filament bulb                      | Red button   | 2ATLR5 F3F4 (IO) 230V AC |
|   | 230V AC                            | Green button |                          |
|   |                                    | Amber lens   |                          |
|   |                                    |              |                          |
|   |                                    |              |                          |
| Connection with Resistor+Diode  |                                    |              |                          |

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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) Marked          |            |                   |
|    | Integral LED  | Green      | 2ATLR5LF3P4 (IO)  |
|   | 6V, 12V, 24V, 48V AC/DC                                     | Red        |                   |
|   | 110VAC, 110VDC,   | Amber lens |                   |
|   | 230VAC, 220VDC  |            |                   |
|   | Please mention the voltage required after the ordering code |            |                   |
| Integral LED  |   |            |                   |
|   | 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 |            |                   |
|  | Integral LED  | Green      | 2ATLR5LF3P4 (IO)F |
|   | 24V, 110V, 230V, AC   | Red        |                   |
|   |   | Amber lens |                   |
|   |   |            |                   |
|   |   |            |                   |
| Flasher   | 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                   | Red    | 2ALM4         |
|   | 6V to 130V AC/DC                |        |               |
|   |                                 |        |               |
|   |                                 |        |               |
|   |                                 |        |               |
|   |                                 |        |               |
|   |                                 |        |               |
| Direct Connection   |                                 |        |               |
|  | Filament bulb                   | Red    | 2ALRM4        |
|   | 24 V,48V,110V,230V AC/DC        |        |               |
|   |                                 |        |               |
|   |                                 |        |               |
|   |                                 |        |               |
|   |                                 |        |               |
|   |                                 |        |               |
| Connection with Resistor  |                                 |        |               |
|  | Filament bulb                   | Red    | 2ALRM4 230AC  |
|   | 230V AC                         |        |               |
|   |                                 |        |               |
|   |                                 |        |               |
|   |                                 |        |               |
|   |                                 |        |               |
|   |                                 |        |               |
| Connection with Resistor+Diode  |                                 |        |               |

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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   |        |               |
|   | 24V AC/DC,  | Red    | 2ALM4LB       |
|   | 110VAC, 110VDC  |        |               |
|   | 230VAC, 220VDC  |        |               |
|   |   |        |               |
| LED Bulb  | Please mention the voltage required after the ordering code |        |               |
|  |   |        |               |
|   | Integral LED  | Red    | 2ALRM4LF      |
|   | 24V, 110V, 230V, AC   |        |               |
|   |   |        |               |
|   |   |        |               |
|   |   |        |               |
| Flasher   | Please mention the voltage required after the ordering code |        |               |



# TEKNIC

Control & Signalling Devices 22.5 Ø  
METALLIC SERIES

| ILLUMINATED MUSHROOM WITH BULB  |                                 |        |                |
|---|---------------------------------|--------|----------------|
|   | TYPE                            | COLOUR | ORDERING CODE  |
|    | Illuminated Mushroom, Push Pull |        |                |
|   |                                 |        |                |
|    | Filament bulb                   | Red    | 2ALMPP4        |
|   | 6V to 130V AC/DC                |        |                |
|   |                                 |        |                |
|   |                                 |        |                |
|   |                                 |        |                |
|   |                                 |        |                |
|   |                                 |        |                |
| Direct Connection   |                                 |        |                |
|  | Filament bulb                   | Red    | 2ALRMPP4       |
|   | 24 V,48V,110V,230V AC/DC        |        |                |
|   |                                 |        |                |
|   |                                 |        |                |
|   |                                 |        |                |
|   |                                 |        |                |
|   |                                 |        |                |
| Connection with Resistor  |                                 |        |                |
|  | Filament bulb                   | Red    | 2ALRMPP4 230AC |
|   | 230V AC                         |        |                |
|   |                                 |        |                |
|   |                                 |        |                |
|   |                                 |        |                |
|   |                                 |        |                |
|   |                                 |        |                |
| Connection with Resistor+Diode  |                                 |        |                |

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## Control & Signalling Devices 22.5 Ø METALLIC SERIES

| ILLUMINATED MUSHROOM WITH LED   |   |        |               |
|---|---|--------|---------------|
|   | TYPE  | COLOUR | ORDERING CODE |
|    | Illuminated Mushroom, Push pull                             |        |               |
|    | <b>Integral LED</b>   | Red    | 2ALRMPP4L     |
|   | 6V, 12V, 24V, 48V AC/DC                                     |        |               |
|   | 110VAC, 110VDC,   |        |               |
|   | 230VAC, 220VDC  |        |               |
|   |   |        |               |
| <b>Integral LED</b>   | Please mention the voltage required after the ordering code |        |               |
|  | <b>LED Bulb, BA9S type</b>                                  | Red    | 2ALMPP4LB     |
|   | 24V AC/DC,  |        |               |
|   | 110VAC, 110VDC  |        |               |
|   | 230VAC, 220VDC  |        |               |
|   |   |        |               |
| <b>LED Bulb</b>   | Please mention the voltage required after the ordering code |        |               |
|  | <b>Integral LED</b>   |        |               |
|   | 24V, 110V, 230V, AC   | Red    | 2ALRMPP4LF    |
|   |   |        |               |
|   |   |        |               |
|   |   |        |               |
| <b>Flasher</b>  | Please mention the voltage required after the ordering code |        |               |

# TEKNIC

Control & Signalling Devices 22.5 Ø  
METALLIC SERIES

## CONTACT ELEMENTS

|  | TYPE                            | ORDERING CODE |
|---|---------------------------------|---------------|
|   | PANEL MOUNTING                  |               |
|   | NORMALLY OPEN SILVER CONTACTS   | S1            |
|   | NORMALLY CLOSED SILVER CONTACTS | S2            |
|   | NORMALLY OPEN GOLD CONTACTS     | S3            |
|   | NORMALLY CLOSED GOLD CONTACTS   | S4            |
|   | BASE MOUNTING                   |               |
|   | NORMALLY OPEN SILVER CONTACTS   | S5            |
|   | NORMALLY CLOSED SILVER CONTACTS | S6            |
|   | NORMALLY OPEN GOLD CONTACTS     | S7            |
|   | NORMALLY CLOSED GOLD CONTACTS   | S8            |

## SPECIAL PURPOSE ACTUATORS

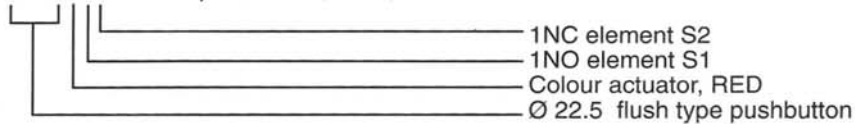
|  | TYPE            | COLOUR | ORDERING CODE |
|---|-----------------|--------|---------------|
|   | Flush Relay     | White  | 2AF1RR        |
|   | Reset Actuators | Black  | 2AF2RR        |
|   |                 | Green  | 2AF3RR        |
|   |                 | Red    | 2AF4RR        |
|   |                 | Blue   | 2AF6RR        |
|   |                 | Yellow | 2AF8RR        |

\*All actuators are supplied with fixing flange

## 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: S3, S4, S7, S8 are gold plated contacts  
Individual mounting : S5, S7  
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



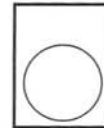
### Accessories and spares

#### 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

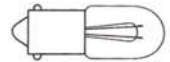
Legend plate Ø 60 mm yellow with black characters for **EMERGENCY STOP**



#### Filament bulb

Filament bulb type BA9S, OAL 28mm

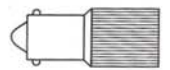
|         |     |    |    |    |    |    |     |
|---------|-----|----|----|----|----|----|-----|
| Voltage | : 6 | 12 | 24 | 30 | 48 | 60 | 130 |
| Watts   | : 1 | 2  | 2  | 2  | 2  | 2  | 2.6 |



#### LED bulb

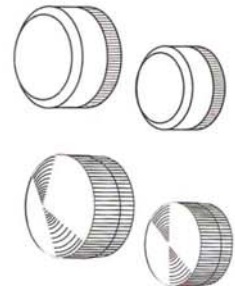
LED multichip bulb type BA9S, OAL 28mm

| 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 |



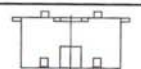
#### Lenses

| Colour of lense   | : Translucent | 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 |



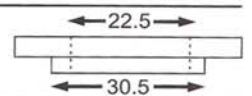
### Push Push mechanism for converting spring return actuator into stay put type

Type No.: 2PPM



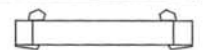
### Adaptor for fixing Ø 22.5 devices in Ø 30.5 cutout.

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 |



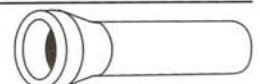
### Boot for twin ill. actuator

|                |           |
|----------------|-----------|
| Colour of Boot | : Clear   |
| Type No        | : 2ATLBT7 |



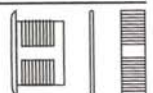
### Bulb extractor

Type No. : 2BA9SE



### Blanking plug for Ø 22.5 hole, black

Type No. : 2BP2



# TEKNIC

## Control & Signalling Devices 22.5 Ø

## METALLIC SERIES

| Bulbs |
|-------|
|-------|

**Filament Bulbs type BA9S**

|          |   |    |    |    |    |    |     |  |
|----------|---|----|----|----|----|----|-----|--|
| Voltage: | 6 | 12 | 24 | 30 | 48 | 60 | 130 |  |
| Watts :  | 1 | 2  | 2  | 2  | 2  | 2  | 2.6 |  |

**Multichip LED type BA9S**

|         |       |       |       |       |       |        |  |  |
|---------|-------|-------|-------|-------|-------|--------|--|--|
| Colour: | White | Green | Red   | Amber | Blue  | Yellow |  |  |
| Code :  | MCB91 | MCB93 | MCB94 | MCB95 | MCB96 | MCB98  |  |  |

Please put supply voltage 24 / 48 / 110AC / 110DC / 230AC / 220 DC after the part no. of LED bulbs

| Lenses |
|--------|
|--------|

|                                     |            |       |       |       |       |       |        |
|-------------------------------------|------------|-------|-------|-------|-------|-------|--------|
| Colour of Lens:                     | TransWhite | Green | Red   | Amber | Blue  | Clear | Yellow |
| For Pilot lights with Filament Bulb | 2PLL1      | 2PLL3 | 2PLL4 | 2PLL5 | 2PLL6 | 2PLL7 | 2PLL8  |

|  |        |        |        |        |        |        |        |
|--|--------|--------|--------|--------|--------|--------|--------|
| For Pilot lights with LED                | 2PLL1L | 2PLL3L | 2PLL4L | 2PLL5L | 2PLL6L | 2PLL7L | 2PLL8L |
| For Illuminated Actuators<br>(Fil. bulb) | 2LAL1  | 2LAL3  | 2LAL4  | 2LAL5  | 2LAL6  | 2LAL7  | 2LAL8  |
| Illuminated Actuators LED                | 2LAL1L | 2LAL3L | 2LAL4L | 2LAL5L | 2LAL6L | 2LAL7L | 2LAL8L |

| Boots |
|-------|
|-------|

### Boots for non-illuminated flush actuators

|                 |             |  |  |  |  |  |  |
|-----------------|-------------|--|--|--|--|--|--|
| Colour of Boot: | Transparent |  |  |  |  |  |  |
| Type No.        | 2BT7        |  |  |  |  |  |  |

## Boots for booted actuators

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

**Boot for illuminated flush actuators**

|                |             |  |  |  |  |  |  |
|----------------|-------------|--|--|--|--|--|--|
| Colour of Boot | Transparent |  |  |  |  |  |  |
| Type No.       | 2ALBT7      |  |  |  |  |  |  |

### Boot for twin non-illuminated actuators

|                |             |  |  |  |  |  |  |
|----------------|-------------|--|--|--|--|--|--|
| Colour of Boot | Transparent |  |  |  |  |  |  |
| Type No.       | 2ATBT7      |  |  |  |  |  |  |

### Boot for twin illuminated actuators

|                 |  |             |  |  |  |  |  |  |
|-----------------|--|-------------|--|--|--|--|--|--|
| Colour of Boot: |  | Transparent |  |  |  |  |  |  |
| Type No.        |  | 2ATLBT7     |  |  |  |  |  |  |



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## Control & Signalling Devices 22.5 Ø METALLIC SERIES

|  |
|--|
| <b>Bulb extractor</b>  |
| Type No.: 2BA9SE   |
|  |
| <b>Blanking plug for 22.5 Ø hole, Black</b>                                  |
| Type No.: 2BP2   |
|  |
| <b>Padlock</b>   |
| Padlock for mushroom actuator : Ordering Code 2PAM                           |
| Padlock for projecting actuator : Ordering Code 2PAP                         |
|  |
| <b>Fixing Flange</b>   |
| Type No. : 2BRK  |
|  |
| <b>Adaptor for fixing 22.5 Ø devices in 30.5 Ø cutout.</b>                   |
| Type No. : 2ADP  |
|  |
| <b>Push Push Mechanism to convert momentary actuators into latching type</b> |
| Type No. : 2PPM  |

# TEKNIC

## Control & Signalling Devices 22.5 Ø METALLIC SERIES

### Accessories and spares

#### Standard Legend Plates

| 1 POSITION                                      |               |              | 2 POSITION            |  |               |       |
|---|---------------|--------------|-----------------------|--|---------------|-------|
| LEGEND  | ORDERING CODE | Price in Rs. | LEGEND                |  | ORDERING CODE |       |
| START   | 2LP01         | 10.50        | START                 | STOP   | 2LP28         |       |
| STOP  | 2LP02         | 10.50        | UP                    | DOWN   | 2LP29         |       |
| FORWARD   | 2LP03         | 10.50        | ON                    | OFF  | 2LP30         |       |
| REVERSE   | 2LP04         | 10.50        | REV.                  | FWD.   | 2LP31         |       |
| UP  | 2LP05         | 10.50        | AUTO                  | HAND   | 2LP32         |       |
| DOWN  | 2LP06         | 10.50        | LOCAL                 | REMOTE   | 2LP33         |       |
| OPEN  | 2LP07         | 10.50        | I                     | II   | 2LP34         |       |
| CLOSE   | 2LP08         | 10.50        | O                     | I  | 2LP35         |       |
| AUTO  | 2LP09         | 10.50        |                       |  |               |       |
| HAND  | 2LP10         | 10.50        |                       |  |               |       |
| SLOW  | 2LP11         | 10.50        | 3 POSITION            |  |               |       |
| FAST  | 2LP12         | 10.50        | LEGEND                |  | ORDERING CODE |       |
| RESET   | 2LP13         | 10.50        | HAND                  | O  | AUTO          | 2LP36 |
| INCH  | 2LP14         | 10.50        | SLOW                  | OFF  | FAST          | 2LP37 |
| ON  | 2LP15         | 10.50        | UP                    | OFF  | DOWN          | 2LP38 |
| OFF   | 2LP16         | 10.50        | I                     | O  | II            | 2LP39 |
| RIGHT   | 2LP17         | 10.50        |                       |  |               |       |
| LEFT  | 2LP18         | 10.50        |                       |  |               |       |
| TRIP  | 2LP19         | 10.50        | OTHERS                |  |               |       |
| POWER ON  | 2LP20         | 10.50        | LEGEND                |  | ORDERING CODE |       |
| LOCAL   | 2LP21         | 10.50        | BLANK ALUMINUM        |  | 2LP40         |       |
| REMOTE  | 2LP22         | 10.50        | EMERGENCY STOP (60mm) |  | 2LP41         |       |
| TEST  | 2LP23         | 10.50        |                       |  |               |       |
| RUN   | 2LP24         | 10.50        |                       |  |               |       |
| R PHASE   | 2LP25         | 10.50        |                       |  |               |       |
| Y PHASE   | 2LP26         | 10.50        |                       |  |               |       |
| B PHASE   | 2LP27         | 10.50        |                       |  |               |       |
|   |               |              |                       |  |               |       |
| Legend Plates (Aluminum) from<br>2LPO1 to 2LP40 |               |              |                       | Legend Plate 2LP41 (Plastic)<br>Yellow with Black characters<br>for EMERGENCY STOP |               |       |
|   |               |              |                       |  |               |       |

## Common types of control and signalling devices Ø 22.5

| Description  | Type of Actuator or Lense Assembly | Colour of Actuator or Lense | Contact Elements<br>NO = S1 NC = S2<br>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<br>Spring return   | 2AM2                               | Black                       | 1NO+1NC   | 2PSM211                                       |  |
|  | 2AM4                               | Red                         | 1NC   | 2PSM401                                       |  |
| Mushroom Pushbutton<br>latching turn to release                                    | 2AML2                              | Black                       | 1NC   | 2PSML201                                      |  |
|  | 2AML4                              | Red                         | 2NO+2NC   | 2PSML422                                      |  |
| Mushroom Pushbutton<br>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<br>in both positions                         | 2AK2-2PB                           |                             | 1NO   | 2PSK210-2PB                                   |  |
| Key Actuator (3Pos), Key withdrawable<br>in left & right positions                 | 2AK2-3PB                           |                             | 1NO+1NC   | 2PSK211-3PB                                   |  |
| Selector illuminated<br>pushbutton, 2 position<br>with resistance and diode (230V) | 2ASLR3-2P230AC                     | Green                       | 1NO+1NC   | 2PSSLR311-2P230AC                             |  |
| Selector illuminated<br>pushbutton, 3 position<br>with resistance (24V)            | 2ASLR4-3P24                        | Red                         | 1NO+1NC   | 2PSSLR411-3P24                                |  |
| Pilot light for direct<br>connection upto 130V                                     | 2PLLA3                             | Green                       | 2LHB24  | 2PLB324                                       |  |
|  | 2PLLA4                             | Red                         | 2LHB130   | 2PLB4130                                      |  |
| Pilot light through resistor and diode<br>for 230 V AC. Bulb:130V.                 | 2PLLA5                             | Amber                       | 2LHBR230AC  | 2PLBR5230AC                                   |  |
|  | 2PLLA6                             | Blue                        | 2LHBR230AC  | 2PLBR6230AC                                   |  |
| Pilot light with transformer for<br>for 230 V Bulb:24 V.                           | 2PLLA4                             | Red                         | 2LHBT230/24   | 2PLBT4230/24                                  |  |
|  | 2PLLA3                             | Green                       | 2LHBT230/24   | 2PLBT3230/24                                  |  |
| Flush illuminated pushbutton<br>with integral LED for 24 V DC                      | 2ALRF3L24DC                        | Green                       | 1NO+1NC   | 2PSLRF3L1124DC                                |  |
| Projecting illuminated pushbutton<br>with integral LED 230 V AC                    | 2ALRP4L230AC                       | Red                         | 1NO+1NC   | 2PSLRP4L11230AC                               |  |
| Pilot Light with LED bulb<br>for 110 V<br>Bulb:110 V                               | 2PLLA5L                            | Amber                       | 2LHB110   | 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<br>marked "I O"  | 2ATL3-F2                           | Lense-Green                 | 1 NO + 1 NC   | 2PSTL3F211-F401-IO130                         |  |
| Flush - Flush<br>direct connection (130V)  | -F4 IO130                          | Flush-Black<br>Flush-Red    | 1 NC  |   |  |
| Twin Illuminated Pushbutton<br>not marked  | 2ATLR5-F3                          | Lense-Amber                 | 1 NO  | 2PSTLR5F310-P40124                            |  |
| Flush - Projecting<br>with resistance (24V)  | -P424                              | Flush-Green<br>Proj.-Red    | 1 NC  |   |  |

Other products include control and signaling devices Ø 22.5 (plastic series), Ø 30.5 and aluminium/plastic control stations