

## Control and Signaling Devices Ø 30.5 Series

MRP with effect from 10.07.2024



## SALIENT FEATURES

The Ø30.5 range of pushbuttons, selector actuators, pilot lights and illuminated pushbuttons have been designed to provide the following salient features:

- Aesthetically elegant
- Easy and rapid mounting
- Dust, moisture and oil tight
- Robust in material of construction
- SELF WIPING CONTACTS
- Safe in operation
- Long mechanical and electrical life

The control devices are designed for flush mounting on control panels, desks and machines with plate thickness upto 6mm. Their dust, moisture and oil tight construction make them specially suitable for application in power plants, steel plants, cement plants, coal handling plants, foundries machine tools etc. Booted pushbuttons are used in very dusty atmospheres.

The pushbuttons comprises of the actuators and contact element. The actuator is designed to contain a full umbrella type of special rubber diaphragm inside the actuator housing in order to provide dust, moisture and oil tight onstruction. The different types of actuators include shrouded, unshrouded booted, mushroom spring return or stayput, mushroom jumbo, selector, key, luminous. Different versions including dust proofing version are described in detail in TEKNIC price list.

The contact element comprises of a contact housing, fixed and moving silver tipped contacts, a slider and a transparent cover through which the contacts can be inspected in operation. Contacts are double break and **self wiping** which ensures long life. Each contact element provides 1NO and 1NC contact. Each unit can take upto 4 contact elements. Separate contact elements can be used on different phases or polarities.

The pilot lights and illuminated pushbuttons are suitable for direct supply or supply through series resistor, using bayonet cap filament bulb.

The pilot light can also be provided with neon bulbs. Replacement of the bulb is easily done by unscrewing the front ring, holding the lense. Pilot lights can be provided with either glass or polycarbonate lenses in the following standard colours

|                     |         |
|---------------------|---------|
| • TRANSLUCENT WHITE | • AMBER |
| • GREEN             | • BLUE  |
| • RED               | • CLEAR |

Supply voltage for direct connection or without series resistor: 6V-230V

Supply voltage for direct connection with series resistor : 24V-230V

Pilot lights can also be supplied with neon bulbs upto a voltage of 500V

## FIXING

The control devices Ø30.5 can be fixed in any position on panel of 1 to 6mm thickness. They are secured from the front by means of a fixing ring. A set of rubber gaskets is supplied to provide water proofing and tightness between the unit and the panel. The exact number of rubber gaskets is to be selected depending upon the panel thickness. Fixing centres of 60mm are recommended between control stations to provide sufficient space for convenient terminal connections and assembly of legend plates.

The pushbutton can be either be mounted as complete unit on the front of the panel or the contact can be individually mounted with the actuator on the panel front plate. Also the pilot light can either be mounted as a complete unit on the front of the panel or the pilot light holder can be individually mounted with the lense on the front of the panel.

### ELECTRICAL AND MECHANICAL CHARACTERISTICS

|                                     |  |
|-------------------------------------|--|
| Rated insulation voltage            | : 500V AC, 600V DC   |
| Rated thermal current               | : 10A  |
| Contact operation                   | : Self wiping, slow double break, 1 NO + 1 NC                    |
| Make and break capacity (13947-5-1) | : AC15: 4A 415V<br>: DC13: 0.5A 110V                             |
| Terminal capacity                   | : Maximum 2x1.5mm <sup>2</sup><br>: Minimum 1x0.5mm <sup>2</sup> |
| Ambient temperature                 | : -25°C to +70°C   |
| Altitude                            | : < 3000 metres  |
| Operating position                  | : All positions  |
| Degree of protection                | : IP 65  |
| Mechanical life                     | : Over 1 million operations                                      |

### ORDERING INSTRUCTIONS

1. Actuators, illuminated actuators, contact elements, pilot lights can be ordered separately or in combination.
2. No prefix before all actuators and combinations indicates Ø30.5 series
3. Numerical colour code has been added as suffix to indicate colour of the actuator or lense as follows:
 

|                     |                   |       |       |     |        |      |       |
|---------------------|-------------------|-------|-------|-----|--------|------|-------|
| Colour of Actuator: | White             | Black | Green | Red | Yellow | Blue | -     |
| Colour of Lense:    | Translucent white | -     | Green | Red | Amber  | Blue | Clear |
| Colour code:        | 1                 | 2     | 3     | 4   | 5      | 6    | 7     |
4. The type number of contact elements are S11, S12, S21, S22. All these have 1NO+1NC contacts. S11 is for mounting directly to actuator and S12 for coupling to S11 for obtaining 2NO+2NC. S21 is for individual mounting and S22 is for coupling for S21 for 2NO+2NC

### BULBS

Filament Bulbs type BA15d

|               |     |     |     |     |     |     |
|---------------|-----|-----|-----|-----|-----|-----|
| Voltage:      | 6   | 12  | 24  | 48  | 110 | 220 |
| Wattage (max) | 5-7 | 5-7 | 5-7 | 5-7 | 5-7 | 5-7 |

### LEGEND PLATES

Legend plates are supplied with the following standards texts

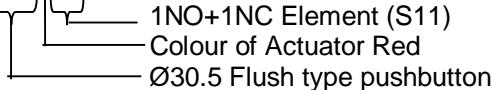
|       |         |      |     |       |      |      |       |
|-------|---------|------|-----|-------|------|------|-------|
| START | FORWARD | UP   | ON  | OPEN  | AUTO | SLOW | RESET |
| STOP  | REVERSE | DOWN | OFF | CLOSE | HAND | FAST | INCH  |

### TYPE NUMBERS

Some examples of type number

|                     |   |
|---------------------|---|
| Actuator            | Type AF3 means type actuator Ø30.5 GREEN                |
| Pilot Light         | Type PLB4 means pilot light without resistor RED        |
| Complete Pushbutton | Type PLBR3 means pilot light with series resistor GREEN |

Type PSF411 means flush type pushbutton RED with 1NO+1NC



1NO+1NC Element (S11)

Colour of Actuator Red

Ø30.5 Flush type pushbutton



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#### NON ILLUMINATED ACTUATOR

|  | TYPE                        | COLOUR | ORDERING CODE | PRICE IN Rs. |
|--|-----------------------------|--------|---------------|--------------|
|  | <b>Flush Momentary</b>      | White  | AF1           | 150.00       |
|  |                             | Black  | AF2           | 150.00       |
|  |                             | Green  | AF3           | 150.00       |
|  |                             | Red    | AF4           | 150.00       |
|  |                             | Blue   | AF6           | 150.00       |
|  |                             | Yellow | AF8           | 150.00       |
|  |                             |        |               |              |
|  | <b>Projecting Momentary</b> | White  | AP1           | 150.00       |
|  |                             | Black  | AP2           | 150.00       |
|  |                             | Green  | AP3           | 150.00       |
|  |                             | Red    | AP4           | 150.00       |
|  |                             | Blue   | AP6           | 150.00       |
|  |                             | Yellow | AP8           | 150.00       |
|  |                             |        |               |              |
|  | <b>Booted Momentary</b>     | Black  | AB2           | 265.00       |
|  |                             | Green  | AB3           | 265.00       |
|  |                             | Red    | AB4           | 265.00       |
|  |                             | Blue   | AB6           | 265.00       |
|  |                             | Yellow | AB8           | 265.00       |
|  |                             |        |               |              |
|  |                             |        |               |              |
|  | <b>Mushroom Momentary</b>   | Black  | AM2           | 165.00       |
|  | <b>Head Ø 40mm</b>          | Red    | AM4           | 165.00       |
|  | <b>Jumbo Mushroom</b>       | Black  | AMJ2          | 265.00       |
|  |                             | Red    | AMJ4          | 265.00       |
|  | <b>Momentary</b>            |        |               |              |
|  | <b>Head Ø 60mm</b>          |        |               |              |



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### NON ILLUMINATED ACTUATOR

|                               | TYPE           | COLOUR | ORDERING CODE | PRICE IN Rs. |
|-------------------------------|----------------|--------|---------------|--------------|
| <b>MUSHROOM HEAD ACTUATOR</b> |                |        |               |              |
|                               | Mushroom       | Black  | AML2          | 245.00       |
|                               | Latching       | Red    | AML4          | 245.00       |
|                               | Head Ø 40mm    |        |               |              |
|                               |                |        |               |              |
|                               |                |        |               |              |
|                               | Jumbo Mushroom | Black  | AMLJ2         | 340.00       |
|                               | Latching       | Red    | AMLJ4         | 340.00       |
|                               | Head Ø 60mm    |        |               |              |
|                               |                |        |               |              |
|                               | Key Mushroom   |        |               |              |
|                               | Latching       | Red    | AMLKB4        | 470.00       |
|                               | Head Ø 40mm    |        |               |              |
|                               |                |        |               |              |
| <b>SELECTOR ACTUATOR</b>      |                |        |               |              |
|                               | 2 Position     |        |               |              |
|                               | STAY PUT       | Black  | AS2-2P        | 305.00       |
|                               |                |        |               |              |
|                               |                |        |               |              |
|                               |                |        |               |              |
|                               | 2 Position     |        |               |              |
|                               | MOMENTARY      | Black  | AS2-2PSR      | 305.00       |
|                               |                |        |               |              |
|                               |                |        |               |              |
|                               |                |        |               |              |
|                               | 3 Position     |        |               |              |
|                               | STAY PUT       | Black  | AS2-3P        | 305.00       |
|                               |                |        |               |              |
|                               |                |        |               |              |



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NON ILLUMINATED ACTUATOR

|   | TYPE | COLOUR | COLOUR | ORDERING CODE | PRICE IN Rs. |
|---|------|--------|--------|---------------|--------------|
| <b>KEY SELECTOR</b>                               |      |        |        |               |              |
| 2 Position Stayput                                |      | Black  |        | AK-2PB        | 450.00       |
|   |      |        |        |               |              |
|   |      |        |        | AK-2PO        | 450.00       |
|   |      |        |        |               |              |
|   |      |        |        | AK-2PI        | 450.00       |
|   |      |        |        |               |              |
| Spring Return                                     |      | Black  |        | AK-2POSR      | 450.00       |
|   |      |        |        |               |              |
|   |      |        |        |               |              |
|   |      |        |        |               |              |
|   |      |        |        |               |              |
|   |      |        |        |               |              |
| 3 Position Stayput                                |      | Black  |        | AK-3PA        | 475.00       |
|   |      |        |        |               |              |
|   |      |        |        | AK-3PB        | 475.00       |
|   |      |        |        |               |              |
|   |      |        |        | AK-3PO        | 475.00       |
|   |      |        |        |               |              |
| * X stands for position in which key is removable |      |        |        |               |              |





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| ILLUMINATED FLUSH ACTUATOR WITH LED BULB |   |                               |               |                              |                               |
|--|---|-------------------------------|---------------|------------------------------|-------------------------------|
|  | TYPE  | COLOUR                        | ORDERING CODE | PRICE IN Rs.<br>INTEGRAL LED | PRICE IN Rs.<br>WITH LED BULB |
|  | <b>Illuminated Flush Actuator, Spring Return</b>            |                               |               |                              |                               |
|  | LED Bulb, MCB15 type  | White LED Bulb / White Lens   | ALF1LB(S)     |                              | 695.00                        |
|  | 24V AC/DC,  | Green LED Bulb / Green Lens   | ALF3LB        |                              | 400.00                        |
|  | 110VAC, 110VDC  | Red LED Bulb / Red Lens       | ALF4LB        |                              | 400.00                        |
|  | 230VAC, 220VDC  | Amber LED Bulb / Amber Lens   | ALF5LB        |                              | 400.00                        |
|  |   | Blue LED Bulb / Blue Lens     | ALF6LB        |                              | 725.00                        |
|  |   | White LED Bulb / Clear Lens   | ALF7LB(S)     |                              | 695.00                        |
|  |   | Yellow LED Bulb / Yellow Lens | ALF8LB        |                              | 400.00                        |
| LED Bulb                                 | Please mention the voltage required after the ordering code |                               |               |                              |                               |
|  | <b>PILOT LIGHT</b>  |                               |               |                              |                               |
|  | Integral LED  | White LED / White Lens        | PLBR1L(S)     | 475.00                       |                               |
|  | 6V, 12V, 24V, 48V AC/DC                                     | Green LED / Green Lens        | PLBR3L        | 320.00                       |                               |
|  | 110VAC, 110VDC,   | Red LED / Red Lens            | PLBR4L        | 320.00                       |                               |
|  | 230VAC, 220VDC  | Amber LED / Amber Lens        | PLBR5L        | 320.00                       |                               |
|  |   | Blue LED / Blue Lens          | PLBR6L        | 635.00                       |                               |
|  |   | White LED / Clear Lens        | PLBR7L(S)     | 475.00                       |                               |
|  |   | Yellow LED / Yellow Lens      | PLBR8L        | 320.00                       |                               |
| Integral LED                             | Please mention the voltage required after the ordering code |                               |               |                              |                               |
|  |   |                               |               |                              |                               |
|  |   | White LED Bulb / White Lens   | PLB1LB(S)     |                              | 615.00                        |
|  | LED Bulb, MCB15 type  | Green LED Bulb / Green Lens   | PLB3LB        |                              | 340.00                        |
|  | 24V AC/DC,  | Red LED Bulb / Red Lens       | PLB4LB        |                              | 340.00                        |
|  | 110VAC, 110VDC  | Amber LED Bulb / Amber Lens   | PLB5LB        |                              | 340.00                        |
|  | 230VAC, 220VDC  | Blue LED Bulb / Blue Lens     | PLB6LB        |                              | 650.00                        |
|  |   | White LED Bulb / Clear Lens   | PLB7LB(S)     |                              | 615.00                        |
|  |   | Yellow LED Bulb / Yellow Lens | PLB8LB        |                              | 340.00                        |
| LED Bulb                                 | Please mention the voltage required after the ordering code |                               |               |                              |                               |



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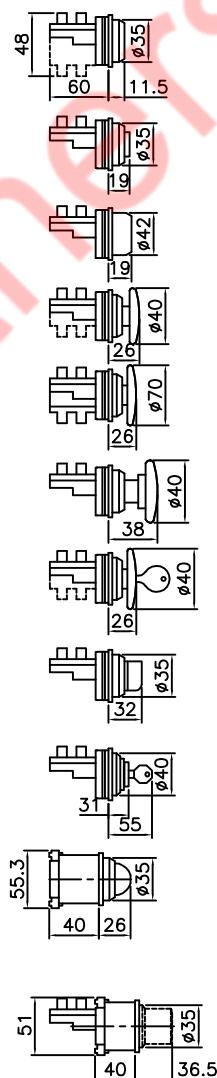
### CONTACT ELEMENTS

|   | TYPE                                      | ORDERING CODE            | PRICE IN Rs. |  |
|---|---|--------------------------|--------------|--|
| <br><b>S11</b> <b>S12</b><br><br><br><b>S11 + S12</b>   |   | <b>ACTUATOR MOUNTING</b> |              |  |
|   | 1NO+1NC                                   | S11                      | 275.00       |  |
|   | 1NO+1NC coupled to S11 to provide 2NO+2NC | S12                      | 275.00       |  |
|   |   |                          |              |  |
| <br><b>S21</b> <b>S22</b><br><br><br><b>S21 + S22</b> |   | <b>BASE MOUNTING</b>     |              |  |
|   | 1NO+1NC                                   | S21                      | 275.00       |  |
|   | 1NO+1NC coupled to S21 to provide 2NO+2NC | S22                      | 275.00       |  |
|   |   |                          |              |  |

## Control and signalling devices Ø30.5

### Some common types

| Description   | Type of Actuator | Type of Actuator or Lense | Colour of Element S11 (1NO + 1NC) | Type of Complete Control Device |
|---|------------------|---------------------------|-----------------------------------|---------------------------------|
| Flush Pushbutton  | AF3              | Green                     | 1NO + 1NC                         | PSF311                          |
|   | AF8              | Yellow                    | 2NO + 2NC                         | PSF822                          |
| Projecting Pushbutton   | AP2              | Black                     | 1NO + 1NC                         | PSP211                          |
|   | AP4              | Red                       | 3NO + 3NC                         | PSP433                          |
| Booted Pushbutton   | AB3              | Green                     | 1NO + 1NC                         | PSB311                          |
|   | AB4              | Red                       | 2NO + 2NC                         | PSB422                          |
| Mushroom Pushbutton (Spring return)                           | AM2              | Black                     | 1NO + 1NC                         | PSM211                          |
| Mushroom Jumbo Pushbutton (Spring return)                     | AMJ4             | Red                       | 4NO + 4NC                         | PSMJ444                         |
| Mushroom Pushbutton Latching. Turn to Release.                | AML2             | Black                     | 1NO + 1NC                         | PSML211                         |
|   | AML4             | Red                       | 2NO + 2NC                         | PSML422                         |
| Mushroom Pushbutton Latching. Key to Release.                 | AMLKB4           | Red                       | 1NO + 1NC                         | PSMLKB411                       |
| Selector Actuator (2 Pos.)                                    | AS2-2P           | Black                     | 1NO + 1NC                         | PSS211-2P                       |
| Selector Actuator (3 Pos.)                                    | AS2-3P           | Black                     | 2NO + 2NC                         | PSS222-3P                       |
| Key Actuator (2 Pos.)   | AK2-2P           |                           | 1NO + 1NC                         | PSK211-2P                       |
| Key Actuator (3 Pos.)   | AK2-3P           |                           | 2NO + 2NC                         | PSK222-3P                       |
| Pilot Light for direct connection upto 230V (LED Bulb)        |                  | Red                       |                                   | PLB4LB (240V AC)                |
| Pilot Light through series resistor for 230V (LED Bulb)       |                  | Green                     |                                   | PLBR3LB (240V AC)               |
| Illuminated Pushbutton direct connection upto 230V (LED Bulb) | AL5LB            | Amber                     | 1NO + 1NC                         | PSL5LB11 (230V)                 |



Other products include terminals, appliance controlgear and Ø22.5 controlgear products



#### GENERAL TERMS AND CONDITIONS

General Terms : Prices are ex-works Mumbai  
HSN CODE : 85365010 for all the products of this MRP List  
GST : 18%

Prices are subject to revision without notice and ruling at the time of delivery.

This price list supersedes all previous Price Lists.

**Warranty Policy :** TEKNIC equipment is guaranteed under the following terms:

For a period of 12 months from the date of sale, TEKNIC guarantees that its products are free from defects in material and workmanship, with the exception of consumables rendered unserviceable through normal use. During the said period, TEKNIC will replace or repair all parts acknowledged as defective due to factory workmanship and which have been returned in a timely manner by Buyer to TEKNIC and all costs and duties paid, together with a detailed description of the failure and a certified declaration of the number of hours of operation. Repaired or replaced parts will be redelivered FCA (named place) as per INCOTERMS 2000. This warranty is subject to the provision of correct usage, proper maintenance and does not cover defects arising out of fire, faulty operation, accident, inefficient maintenance and willful or accidental damage.

TEKNIC guarantee applies to all equipment, parts and components stored, installed, protected, maintained and used in accordance with TEKNIC specifications and instructions, and respecting the rules for normal use, without any modification by Buyer.

All other conditions or warranties, whether express or implied, relating to the quality and operation of the equipment are excluded, as well as any liability for loss or damage caused directly or indirectly by the equipment or resulting from its use.

Proof of purchase to be provided to avail warranty.

#### TEKNIC ELECTRIC (I) PVT. LTD.

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