## ค야NNOC 트두RIC

Control \& Signalling devices $\varnothing 22.5$ plastic construction Monoblock Series

MRP with effect from 10.07.2022


## THERNDC ミレミᄃTRIC

## Control and Signalling Device in plastic construction

## Salient Features

This range of $\varnothing 22.5$ devices plastic series namely Push Button switches，Selector Switches，Emergency Switches，Pilot Lights in engineering Plastic Construction，have been designed to provide our OEM customers and Panel Builders a compact series of products with a competitive edge．This range ensures cost efficiency and provides a high level of reliability and economy．Technical Features includes：
－Safe in Operation •Enables Control on inventory $\bullet$ Reliable performance $\bullet$ All in one function－complete function in one order code $\bullet$ Low built in Depth －Single or two built in electrically separated contacts are provided（either $1 \mathrm{NO}, 1 \mathrm{NC}, 2 \mathrm{NO}, 2 \mathrm{NC}$ or $1 \mathrm{NO}+1 \mathrm{NC}$ ）•Economy of Space •Aesthically elegant －Robust design •Larger operating surface than $\varnothing 30.5 \bullet$ Easy Mounting

## PUSH BUTTONS

The monoblock push buttons are circular in design，$\varnothing$ 22．5．The combination is of an actuator and contact element，single or two built in electrically separated contacts $1 \mathrm{NO}, 1 \mathrm{NC}, 2 \mathrm{NO}, 2 \mathrm{NC}$ or $1 \mathrm{NO}+1 \mathrm{NC}$ ．Different varieties／colours of Actuators available are described separately herewith with their images，where the respective dimensions of the devices are also given．

## PILOT LIGHTS：

Pilot Lights are available with integral LEDs，suitable for operating at various voltages，namely $6 \mathrm{~V}, 12 \mathrm{~V}, 24 \mathrm{~V}, 30 \mathrm{~V}, 48 \mathrm{~V}, 63 \mathrm{~V}, 110 \mathrm{~V}, 125 \mathrm{~V}$ AC／DC， 240 VAC \＆ 220VDC．Any other voltage \＆test function available on request．The pilot lights can also be offered with dual colour LEDs with different colour combinations for 12 V to 240 V AC／DC．The pilot lights with integral LEDs are also available suitable for operating at any universal voltage between 24 V and 240 V AC／DC．

## Terminals

Push Button Contacts and Pilot Lights are designed to have shrouded terminals with Combi Screws．

## Fixing

The integrated push button and pilot light range can be fixed in any position on panels of 1 to 5 mm thickness．The recommended fixing centres are 30 $\mathrm{mm} \times 40 \mathrm{~mm}$ ．The push button and pilot light are fixed on the panel with the help of locking nut．

## Specifications of 103 series：

Details of these control devices，$\varnothing 22.5$ are detailed below：

## A．Mechanical Durability

| Push Button | Spring Return | Million Operations | 1 |
| :---: | :---: | :---: | :---: |
|  | Selector |  | 0.5 |
|  | Latching Type |  | 0.1 |
|  | Mushroom Type |  | 0.02 |

B．Standards \＆Conditions

| Applicable Standard | UL 508，IEC 60947－5－1，CSA 22．2 |
| :--- | :--- |
| Degree of Protection | IP54（as per IEC 60947－5－1） |
| Operating Conditions | $+70^{\circ} \mathrm{C}$ to $-25^{\circ} \mathrm{C}$ |
| Confirming to IEC 60947－5－1 <br> Mounting | Finished fixing hole：22．5mm recommended（22．3＋0．4／0） <br> Fixing Centres： $30 * 40 \mathrm{~mm}$ Min，（Unless otherwise indicated） <br> Mounting Panel thickness：metal： 1 to 6 mm, double insulated： 2 to 6 mm |

## C．Electrical Characteristics

| Rating |  | For AC：C300＝120V，make current 15A \＆break current 1．5A （Thermal current $=2.5 \mathrm{~A}$ ） <br> For DC：R300 $=125 \mathrm{~V}$ make or break current 0.22 A ，（Thermal current $=1.0 \mathrm{~A}$ ） |
| :---: | :---: | :---: |
| Type of contact |  | N／C or N／O or C／O Slow Break |
| Positive operation |  | All functions incorporating an NC contact have positive opening（IEC 60947－5－1） |
| Terminal Capacity | Cabling | $\begin{aligned} & 2 \times 1.5 \mathrm{~mm}^{2} \text { (Pin type lugs) } \\ & 1 \times 0.5 \mathrm{~mm}^{2} \text { (min) (Pin / fork type lugs) } \\ & 1 \times 2.5 \mathrm{~mm}^{(\mathrm{max}) \text { (Pin / fork type lugs) }} \end{aligned}$ |
| Screw Clamp tightening torque |  | $\begin{aligned} & \text { 0.8 N.m. (nominal recommended) } \\ & \text { 1.2 N.m(Max) } \end{aligned}$ |
| Short Circuit Protection |  | 4A（gG catridge fuse）（IEC 60947－5－1） |
| Rated insulation Voltage |  | Ui＝250V（Degree of pollution 3） |
| Rated impulse withstand voltage |  | Uimp＝6kV（IEC 60947－1） |
| Dielectric Test |  | 2．5KV（IEC 60947－5－1） |
| Rated insulation resistance |  | 50M＇今（IEC 60947－1） |
| Vibration Test |  | 15 gn （Frequency 40－500 Hz）（IEC 60068－2－6） |
| Shock Test |  | $70 \mathrm{gn} \mathrm{(1⁄22} \mathrm{sine} \mathrm{wave} \mathrm{for} \mathrm{6ms)} \mathrm{(IEC} \mathrm{60068-2-27)}$ |
|  | Emergency stop | $15 \mathrm{~g} \mathrm{(1⁄2}$ sine wave for 11ms）（IEC 60068－2－27） |

## D．Pilot light 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 .10 mA |
| 220 VDC | max .10 mA |
| Service life（at nominal voltage \＆at ambient temperature of $25^{\circ} \mathrm{C}$ ） | 50,000 hours |
| Voltage limits（nominal voltage） | $<20 \%$ of rated voltage $>$ |
| Short circuit protection | on specific request |
| Terminal capacity | min． $1 \times 0.5 \mathrm{~mm} 2, \mathrm{max} .2 \times 1.5 \mathrm{~mm} 2 \mathrm{or} 1 \times 2.5 \mathrm{~mm} 2$ |

MRP w.e.f. 10.07.2023
Control \& Signalling Devices 22.5 Ø PLASTIC SERIES (ECONOMY SERIES)

## MOMENTARY FLUSH PUSH BUTTONS

|  | TYPE | COLOUR | ORDERING CODE | PRICE IN Rs. |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
|  |  | White | 3PSF110 | 110.00 |
|  | Flush push | Black | 3PSF210 | 110.00 |
|  | button with 1NO | Green | 3PSF310 | 110.00 |
|  | contact element | Red | 3PSF410 | 110.00 |
|  |  | Blue | 3PSF610 | 110.00 |
|  |  | Yellow | 3PSF810 | 110.00 |
|  |  |  |  |  |
|  |  | White | 3PSF101 | 110.00 |
|  | Flush push | Black | 3PSF201 | 110.00 |
|  | button with 1NC | Green | 3PSF301 | 110.00 |
|  | contact element | Red | 3PSF401 | 110.00 |
|  |  | Blue | 3PSF601 | 110.00 |
|  |  | Yellow | 3PSF801 | 110.00 |
|  |  |  |  |  |
|  |  | White | 3PSF111 | 150.00 |
|  | Flush push | Black | 3PSF211 | 150.00 |
|  | button with | Green | 3PSF311 | 150.00 |
|  | 1NO+1NC | Red | 3PSF411 | 150.00 |
|  | contact element | Blue | 3PSF611 | 150.00 |
|  |  | Yellow | 3PSF811 | 150.00 |
|  |  |  |  |  |
|  |  | White | 3PSF120 | 150.00 |
|  | Flush push | Black | 3PSF220 | 150.00 |
|  | button with 2NO | Green | 3PSF320 | 150.00 |
|  | contact element | Red | 3PSF420 | 150.00 |
|  |  | Blue | 3PSF620 | 150.00 |
|  |  | Yellow | 3PSF820 | 150.00 |
|  |  |  |  |  |
|  |  | White | 3PSF102 | 150.00 |
|  |  | Black | 3PSF202 | 150.00 |
|  | Flush push | Green | 3PSF302 | 150.00 |
|  | button with 2NC | Red | 3PSF402 | 150.00 |
|  | contact element | Blue | 3PSF602 | 150.00 |
|  |  | Yellow | 3PSF802 | 150.00 |
|  |  |  |  |  |

MRP w.e.f. 10.07.2023
Control \& Signalling Devices 22.5 Ø
PLASTIC SERIES (ECONOMY SERIES)

## LATCHING FLUSH PUSH BUTTONS

|  | TYPE | COLOUR | ORDERING CODE | PRICE IN Rs. |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  | White | 3PSFPP110 | 125.00 |
|  | Flush push - | Black | 3PSFPP210 | 125.00 |
|  | push button with | Green | 3PSFPP310 | 125.00 |
|  | 1NO contact element | Red | 3PSFPP410 | 125.00 |
|  |  | Blue | 3PSFPP610 | 125.00 |
|  |  | Yellow | 3PSFPP810 | 125.00 |
|  |  |  |  |  |
|  |  | White | 3PSFPP101 | 125.00 |
|  | Flush push - | Black | 3PSFPP201 | 125.00 |
|  | push button with | Green | 3PSFPP301 | 125.00 |
|  | 1NC contact element | Red | 3PSFPP401 | 125.00 |
|  |  | Blue | 3PSFPP601 | 125.00 |
|  |  | Yellow | 3PSFPP801 | 125.00 |
|  |  |  |  |  |
|  |  | White | 3PSFPP111 | 165.00 |
|  | Flush push - | Black | 3PSFPP211 | 165.00 |
|  | push button with | Green | 3PSFPP311 | 165.00 |
|  | 1NO+1NC | Red | 3PSFPP411 | 165.00 |
|  | contact element | Blue | 3PSFPP611 | 165.00 |
|  |  | Yellow | 3PSFPP811 | 165.00 |
|  |  |  |  |  |
|  |  | White | 3PSFPP120 | 165.00 |
|  | Flush push - | Black | 3PSFPP220 | 165.00 |
|  | push button with | Green | 3PSFPP320 | 165.00 |
|  | 2NO contact element | Red | 3PSFPP420 | 165.00 |
|  |  | Blue | 3PSFPP620 | 165.00 |
|  |  | Yellow | 3PSFPP820 | 165.00 |
|  |  |  |  |  |
|  |  | White | 3PSFPP102 | 165.00 |
|  | Flush push - | Black | 3PSFPP202 | 165.00 |
|  | push button with | Green | 3PSFPP302 | 165.00 |
|  | 2NC contact element | Red | 3PSFPP402 | 165.00 |
|  |  | Blue | 3PSFPP602 | 165.00 |
|  |  | Yellow | 3PSFPP802 | 165.00 |
|  |  |  |  |  |

MRP w.e.f. 10.07.2023
Control \& Signalling Devices 22.5 Ø PLASTIC SERIES (ECONOMY SERIES)

## MUSHROOM LATCHING PUSH BUTTONS




MRP w.e.f. 10.07.2023
Control \& Signalling Devices 22.5 Ø PLASTIC SERIES (ECONOMY SERIES)

## SELECTOR PUSH BUTTONS



MRP w.e.f. 10.07.2023
Control \& Signalling Devices 22.5 Ø PLASTIC SERIES (ECONOMY SERIES)

## SELECTOR PUSH BUTTONS



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．

| Reg．Office | $: 116$, Hammersmith Industrial Estate，Mahim（W），Mumbai－400016． |
| :--- | :--- | :--- |
| Head Office | $: 703 / 704 / 705$, Madhava，Bandra Kurla Complex，Bandra（E），Mumbai $-400051 . \quad$ Tel ：＋91－22－42532500 |
| Works | $: 65$, Marol Co－op．Industrial Estate Ltd．，M．Vassanji Road，Andheri（East），Mumbai－400059．Tel ：＋91－22－42534500 |
| Email | ：teknic＠teknic．co．in mfg＠teknic．co．in Website $:$ www．teknic．co．in |

