



Control & Signalling devices Ø 22.5 plastic construction Monoblock Series

MRP with effect from 10.07.2022





## Control and Signalling Device in plastic construction

#### Salient Features

This range of Ø 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 •Reliable performance •All in one function complete function in one order code •Low built in Depth
- Single or two built in electrically separated contacts are provided (either 1 NO, 1NC, 2NO, 2NC or 1NO+1NC) Economy of Space Aesthically elegant
- Robust design Larger operating surface than Ø 30.5 Easy Mounting

#### **PUSH BUTTONS**

The monoblock push buttons are circular in design, Ø 22.5. The combination is of an actuator and contact element, single or two built in electrically separated contacts 1NO, 1NC, 2NO, 2NC or 1NO+1NC. 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 6V, 12V, 24V, 30V, 48V, 63V, 110V, 125V AC/DC, 240VAC & 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 12V to 240V AC/DC. The pilot lights with integral LEDs are also available suitable for operating at any universal voltage between 24V and 240V 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 mm x 40 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, Ø 22.5 are detailed below:

#### A. Mechanical Durability

	Spring Return		1
Push Button	Selector	Million Operations	0.5
Push Bullon	Latching Type	Willion Operations	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°C to -25°C		
	Confirming to IEC 60947-5-1		
Mounting	Finished fixing hole: 22.5mm recommended (22.3+0.4/0)		
	Fixing Centres: 30*40mm Min, (Unless otherwise indicated)		
	Mounting Panel thickness: metal: 1 to 6mm, double insulated: 2 to 6mm		

#### C. Electrical Characteristics

		For AC: C300=120V, make current 15A & break current 1.5A
Rating		(Thermal current = 2.5A)
		For DC: R300= 125V make or break current 0.22A, (Thermal current = 1.0A)
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)
		2X1.5mm <sup>2</sup> (Pin type lugs)
Terminal Capacity	Cabling	1X0.5mm <sup>2</sup> (min) (Pin / fork type lugs)
		1X2.5mm (max) (Pin / fork type lugs)
Screw Clamp tightening torque		0.8 N.m. (nominal recommended)
		1.2 N.m(Max)
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		50MΩ (IEC 60947-1)
Vibration Test		15 gn (Frequency 40-500 Hz) (IEC 60068-2-6)
Shock Test		70 gn (½ sine wave for 6ms) (IEC 60068-2-27)
	Emergency stop	15 g (½ 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 ° C)	50,000 hours
Voltage limits (nominal voltage)	< 20% of rated voltage >
Short circuit protection	on specific request
Terminal capacity	min. 1 x 0.5 mm2, max. 2 x 1.5 mm2 or 1 x 2.5 mm2



#### MOMENTARY FLUSH PUSH BUTTONS **TYPE COLOUR ORDERING CODE** PRICE IN Rs. White 3PSF110 110.00 Black 3PSF210 110.00 Flush push button with 1NO Green 3PSF310 110.00 contact element Red 3PSF410 110.00 Blue 3PSF610 110.00 110.00 Yellow 3PSF810 3PSF101 110.00 White Flush push Black 3PSF201 110.00 button with 1NC Green 3PSF301 110.00 contact element 110.00 Red 3PSF401 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 3PSF811 150.00 Yellow White 3PSF120 150.00 Flush push Black 3PSF220 150.00 button with 2NO 3PSF320 150.00 Green contact element Red 3PSF420 150.00 Blue 3PSF620 150.00 Yellow 3PSF820 150.00 White 3PSF102 150.00 150.00 Black 3PSF202 Flush push Green 3PSF302 150.00 150.00 button with 2NC Red 3PSF402 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)

	ТҮРЕ	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
TEXNIC	Flush push -	Black	3PSFPP211	165.00
11—0-0—12(NO)	push button with	Green	3PSFPP311	165.00
8 6	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



SIMOOW LAT	CHING PUSH BUTTONS			
	ТҮРЕ	COLOUR	ORDERING CODE	PRICE IN Rs.
	Mushroom Latching Ø 40mm			
	with 1NO contact element	Red	3PSML410	180.00
	Mushroom Latching Ø 40mm			
	with 1NC contact element	Red	3PSML401	180.00
	Much rooms Latching (\$40 mm			
	Mushroom Latching Ø 40mm with 1NO+1NC contact element	Red	3PSML411	220.00
	with 1100 tive contact crement			
TEKNIG <sup>®</sup> 3PSML401 11-00-12(NG)				
1 2813 12				
	Mushroom Latching Ø 40mm			
	with 2NO contact element	Red	3PSML420	220.00
	Mushroom Latching Ø 40mm	Dl	200041402	220.00
	with 2NC contact element	Red	3PSML402	220.00



ТҮРЕ	COLOUR	ORDERING CODE	PRICE IN Rs.
Selector push button,			
2 position, with 1 NO	Black	3PSS210-2P	210.00
contact element	2.00.0	0.00220 2.	
Selector push button,			210.00
2 position, with 1 NC	Black	3PSS201-2P	
contact element			
Selector push button,	DII	2000244 20	250.00
2 position, with 1 NO + 1 NC	Black	3PSS211-2P	250.00
contact element			
Selector push button,			
2 position, with 2 NO	Black	3PSS220-2P	250.00
contact element	Black	31 33223 21	230.00
Selector push button,			
2 position, with 2 NC	Black	3PSS202-2P	250.00
2 position, with 2 NC	Diack	31 33202 21	230.00



SELECTOR PUSH B	UTTONS			
	ТҮРЕ	COLOUR	ORDERING CODE	PRICE IN Rs.
	Selector push button,			
	3 position, with 1NO+1NC	Black	3PSS211-3P	250.00
	Contact Element			
	Selector push button,		+	
	3 position, with 2NO	Black	3PSS220-3P	250.00
	contact element			
	Selector push button,			
	3 position, with 2NC	Black	3PSS202-3P	250.00
	contact element			



#### 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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