

VAISHNO



Control and Signalling Devices \varnothing 22.5mm



Ø 22.5mm PUSH BUTTON SELECTOR SWITCHES & PILOT LAMPS SERIES '2XV'

Vaishno Make Push Buttons, Selector Switches and Pilot Lamps are normally Suitable for Control & Auxiliary Circuits, A.C. or D.C. backed by twentyfive years of proven performance in the field.

These devices have contact reliability, increased operational safety, compactness and reduced labour input. The availability of two separate models of contact blocks-rear wire connection type for panel mounting application and front wire connection type for base mounted and other features make them an ideal choice for panels, control desks, control stations, machine tools etc.

These devices generally comply with the requirement of IS : 13947 (Part 5/SEC-1)1993 as well as IEC : 947 - 5 - (1) 1990.

SALIENT FEATURES

- Very good flame resistance
- Interchangeable blocks provide multiple contact configurations at site.
- Vaishno's traditional hall mark for precision & exacting quality and assurance for consistency & reliability.
- Safe in operation, locking device unaffected by vibration
- Self wiping contacts ensure trouble free operation
- State-of-the-art workmanship aesthetic elegance
- Vaishno's more than two decades of trust and confidence
- Protection against electrical shock (Unit Earthed).

Push Buttons & Selector Switches are available in Chrome Plated Metallic body and Bezel as well as in Glass filled thermo plastic body and bezel and are functionally interchangeable.

The elements are interchangeable and can be stacked without additional hardware, 1 to 4 element (NO or NC) can be used with Push buttons and Selector Switches. For illuminated Push Buttons 1 or 2 element (NO or NC) may be used.

The Pilot lights and illuminated switches are suitable for direct supply or supply through series resistor, using bayonet cap filament bulb type BA-9S for both AC/DC supply from 6V to 230V.

Indicating Lights with switching device and integral LED modules can be directly mounted on panel and rated voltage can be directly applied to the module input. These are available in Standard and barrel type enclosure in Thermoset (DMC) and Thermoplastic housing for AC / DC and AC or DC Supply.

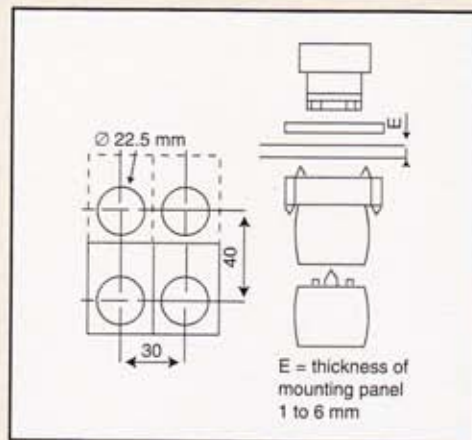
SIGUT TERMINATION : This unique feature is highly user oriented. It increases safety to the user by preventing accidental contact by the user with live terminals.

COMPACT 22.5MM DIAMETER : The smaller mounting diameter reduces mounting space by 30% as compared to conventional 30.5 mm design.

ENERGY SAVER : 22.5 mm devices require lamp with 2/2.6W instead of 7 to 10 Watt Lamps used in 30.5 mm devices. This results in energy saving.

MOUNTING : Only screw driver is required for fixing these devices on to panel having thickness of 1 to 6 mm in any position. The whole assembly is locked into position with the help of two M4 pointed screw on the bracket. These screws also ensure the earthing. We recommend fixing centres as per standard. The Screws should be tightened simultaneously to an extent as to pierce through the paint on the panel from inside.

Mounting Matrix is shown in figure.



MOUNTING MATRIX

TECHNICAL SPECIFICATIONS

● Standard Conformity	IS : 13947 (Part 5/SEC-1) 1993 & IEC : 947-5-(1)1990	● Mechanical life	Over 1 Million Operations.
● Rated Thermal Current	10 Amps.	● Electrical life	Depends on load current
● Rated Insulation Voltage		● Switching frequency Minimum	1200 cycles per hour
For all Push Buttons and Selector Switches excluding Luminous Switches & Lamp Holders	AC 500 Volts Hz; DC 250V	● Degree of protection	All operating heads IP 65
For illuminated Switches & Lamp Holder	AC 250 Volts 50Hz; DC 250V	● According to IS : 2147 (1962) & IEC : 529	Except Mushroom Key Release which is IP 54.
● Rated operational voltage for contact blocks	AC 500 Volts 50Hz; DC 220V	● Dielectric test Voltage	Push Buttons with rubber Shrouds IP 66
● Electrical Ratings		● Operating Temperature limit (Except Shrouds)	2.5KV FOR 1 MIN
IEC : 947-5 (1) 1990	AC 15 = 4A, 415 V AC DC 13 = 0.5 A, 110V DC With a Time Constant of 300 millisecond	Non-illuminated Units	-25° to + 70°
IS : 13947 (Part 5Sec-1) 1993	AC 15 = 4A, 415V AC DC 13 = 0.5A, 110V DC With a Time Constant of 300 millisecond	Illuminated units	-25° to +50°
		● Operating Position	All Positions
		● Backup Fuse Rating	10 Amps. Cartridge fuse
		HRC Type rated for resistive loading	
		● Terminal capacities	maximum 2x1.5mm ² or 1x 2.5 mm ² Minimum 1x0.5 mm ²
		● Altitude	<3000 meters.
		● Terminal Marking	Dual marking system 1-2 For normally closed and 3-4 for normally open

ACCESSORIES AND SPARES


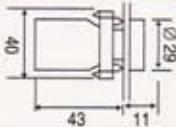

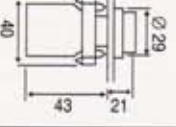

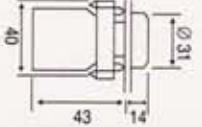

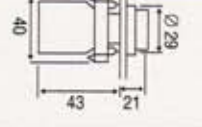

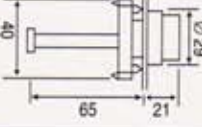

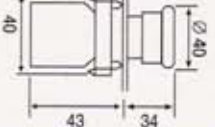

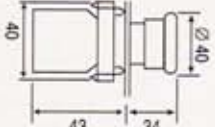

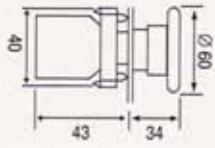

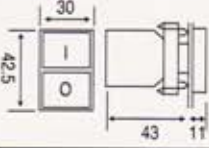

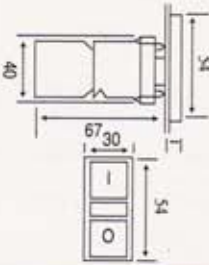
ADOPTOR RING	:	For assembly of Ø 22.5mm in Ø 30.5mm hole. CAT NO. 2XVADP					
BULB EXTRACTOR	:	To remove or fit the bulb from front. CAT NO. 2XVBPE					
FILAMENT BULB	:	Filament Bulbs type BA-9S with OAL 28mm. max. CAT NO. 2XVBLB					
	Voltage :	6 12 24 48 130					
	Watts :	1 2 2 2 2.6					
PILOT LIGHT LENS	:	Unbreakable Polycarbonate Lens. CAT NO. 2XVILP					
PILOT LIGHT LENS ASSY.	:	Lens Holder assembly with Polycarbonate Lens. CAT NO. 2XVIL-CP					
ILLUMINATED PUSH BUTTON LENS ASSEMBLY	:	Lens Holder assembly with polycarbonate Lens & Ring. CAT NO. 2XVILST-CP					
PROTECTIVE BOOT	:	For Booted Actuator, oil and water tight seal for IP 66. CAT NO. 2XVADB					
PAD LOCK	:	For Mushroom Actuator CAT NO. 2XVAM-PD and for Projecting Actuator. CAT NO. 2XVAP-PD					
LEGEND PLATE	:	Standard inscription available. CAT NO. 2XV-IP					
STANDARD INSCRIPTION AVAILABLE							
AUTO	INCH	ON	OFF	OPEN	CLOSE	UP	DOWN
MANUAL	SLOW	FAST	FORWARD	REVERSE	START	STOP	RESET
Legend plate 60mm yellow with black characters for Emergency Stop.							


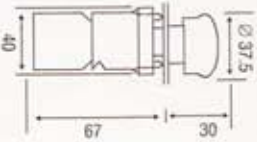

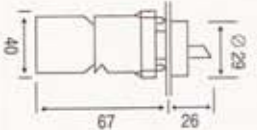

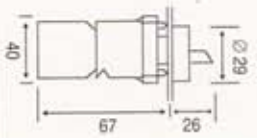

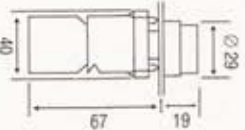

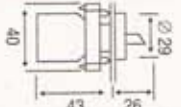

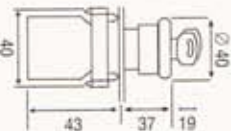

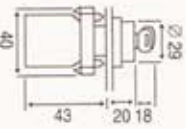

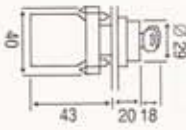

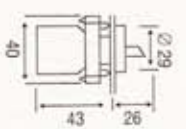
SUFFIX FOR COLOUR CODE


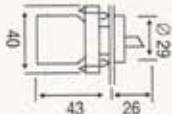

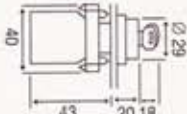

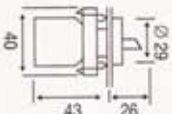

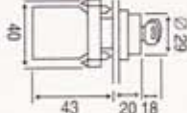

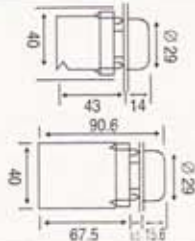

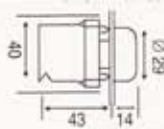

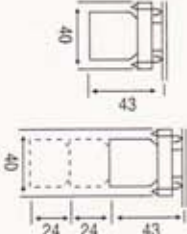
WHITE	- 1	GREEN	- 3	YELLOW	- 8	BLUE	- 6
RED	- 4	AMBER	- 5	CLEAR	- 7	BLACK	- 2

CONTROL & SIGNALLING DEVICES Ø 22.5

Selection Table

PRODUCT	DIMENSIONS	CAT NO.	DESCRIPTION
		2XVAF	FLUSH BUTTON Spring Return
		2XVAP	PROJECTING BUTTON Spring Return
		2XVAB	BOOTED BUTTON Spring Return For Flush Actuator
		2XVAPSN	PROJECTING BUTTON Push to ON Push to OFF
		2XVAP-RR 2XVAF-RR	RELAY RESET Spring Return Projecting Button Flush Button
		2XVAM 2XVAM-PD	MUSHROOM BUTTON Head Dia 40 mm Spring Return With Padlocking Device
		2XVAPR 2XVAPR-PD 2XVAPR-S	MUSHROOM STAYPUT BUTTON Head Dia 40 mm Press to Lock & Turn to Reset With Padlocking Device STAYPUT BUTTON Head Dia 30 mm
		2XVAJ 2XVAJPR	MUSHROOM JUMBO BUTTON Head Dia 60 mm Spring Return MUSHROOM JUMBO STAYPUT BUTTON Head Dia 60 mm Press to Lock Turn to Reset
		2XVADB	TWIN BUTTON Spring Return with green knob marked I & red knob marked O
		2XVADB-LSTR 2XVADB-LST 2XVLDBL	LUMINOUS TWIN BUTTON SPRING RETURN With Green Knob Marked I & Red Knob marked O With Lamp Holder With BA9S bulb 2.6 W - With series resistance for 220V, 110V, 24V - Direct Connection upto 130V - With LED for 220V, 110V, 24V, AC or DC supply

PRODUCT	DIMENSIONS	CAT NO.	DESCRIPTION
		2XVAPR-LSTR-PL 2XVAPR-LST-PL 2XVLDPR	LUMINOUS STAYPUT BUTTON Press to Lock, Turn to Reset With Lamp holder, with Bulb BA-9S, 2.6 W – With Series resistance for 220V, 110V, 24V – For Direct Connection up to 130 V Supply – With LED for 220V, 110V, 24V, AC OR DC Supply
		2XVA2SILR 2XVA2SIL 2XVLD2SL	LUMINOUS SELECTOR TWO POSITION Lamp Holder, Bulb BA-9S 2.6 W – With Series Resistance for 220V, 110V, 24V – Direct Connection up to 130V – With LED for 220V, 110V, 24V AC or DC Supply
		2XVA3SILR 2XVA3SIL 2XVLD3SL	LUMINOUS SELECTOR THREE POSITION Lamp Holder, Bulb BA9S 2.6 W – With Series Resistance for 220V, 110V, 24V – Direct Connection up to 130V – With LED for 220V, 110V, 24V AC or DC Supply
		2XVALSTR 2XVALST 2XVLDLST	LUMINOUS BUTTON SPRING RETURN Lamp Holder with Bulb BA9S 2.6 W – With Series Resistance for 220V, 110V, 24V – For Direct Connecton upto 130 V Supply – With LED for 220V, 110V, 24V AC OR DC Supply
		2XVA2S 2XVA3S	SELECTOR MAINTAINED CONTACT – Two Position – Three Position
		2XVAK-1L 2XVAK-2L 2XVAK-3L 2XVAK-PL	MUSHROOM HEAD KEY LOCKABLE ACTUATOR Key Removable in – Pressed (Actuated) Position – Unpressed (Unactuated) Position – Pressed & Unpressed Position – Press to Lock, Key to Reset
		2XVA1-2CL 2XVA2-2CL 2XVA3-2CL	KEY SELECTOR TWO POSITION MAINTAINED CONTACT Key Removable in: – Right Positon – Left Positon – Right & Left Positon
		2XVA4-3CL 2XVA5-3CL 2XVA6-3CL	KEY SELECTOR THREE POSITION MAINTAINED CONTACT Key Removable in: – Right & left Position Center Off – Left, Centre and Right Position – Centre Position only
		2XVAS-1 2XVAS-1A	SPRING RETURN SELECTOR TWO POSITION Spring Return from: – Left to Right Without Lock – Left to Right With Lock, key removable in Right Position

PRODUCT	DIMENSIONS	CAT NO.	DESCRIPTION
		2XVAS-2 2XVAS-2A	TWO POSITION Spring Return from: - Right to Left Without Lock - Right to Left With Lock; Key removable in Left Position
		2XVAS-3 2XVAS-3A	THREE POSITION - Spring Return from Left to Centre maintained on Right, all contacts open in Centre Position - Without Lock - With Lock, key removable in Centre Position
		2XVAS-4 2XVAS-4A	THREE POSITION - Spring Return from Right to Centre maintained on left, all contacts open in Centre Position - Without Lock - With Lock, Key removable in Centre Position
		2XVAS-5 2XVAS-5A	THREE POSITION - Spring Return from Left to Centre & Right to Centre All Contacts open in Centre - Without Lock - With Lock, Key removable in Centre position
		2XVILR 2XVIL 2XVILT	PILOT LIGHT Lamp holder with Bulb BA9S 2.6 W - With Series Resistance for 220V, 110V, 48V, 24V AC Supply - For Direct Connection up to 130V Supply - With Step Down Transformer for 415V, 220, 110V input & 24V, 6V Output
		2XVLDIL	PILOT LIGHT WITH CLUSTER LED AND INTEGRAL CIRCUIT - Suitable for 220V, 110V, 24V, AC or DC Supply
		V1 V2 V3	CONTACT BLOCKS REAR CONNECTION U _i : 500V, I _{th} : 10A AC 15 : 4 Amp, 415 V AC DC 13 : 0.5 Amp, 110 V DC - Normally Open (NO) - Normally Closed (NC) Normally Open & Normally Closed (1NO+1NC) FOR FRONT CONNECTION PLEASE ADD SUFFIX 'F' TO EACH CAT. NO. e.g. V1F, V2F or V3F

OUR OTHER PRODUCTS ● CONTROL DEVICES IN Ø 30.5 MM ● ROTARY SWITCHES ● LIMIT SWITCHES ● NEON JEWEL LIGHTS
● STANDARD & TAILOR MADE PUSH BUTTON STATIONS & JUNCTION BOXES IN CAST ALUMINIUM, FR.P. & SHEET STEEL ENCLOSURES
● ANALOG & DIGITAL AMMETERS & VOLT METERS ● FREQUENCY METERS ● POWER FACTOR METER ● KW METERS

Due to continuous research and upgradation in product quality, the specifications of any of the above items can be changed without prior notice.



Hotline Switchgear & Controls

(AN ISO 9002 CERTIFIED COMPANY)



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