ABSOLUTE CONTROL

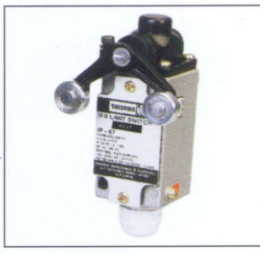
VAISHNO

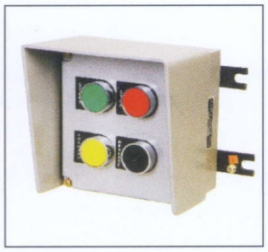
HOTLINE















- Controlling Devices
- Signalling Devices
- Measuring Devices
- Switchgears

LOW TENSION CONTROLGEARS

VAISHNO HOTLINE

The widest range

ELECTRONIC BUZZER (HSB - SERIES)

"VAISHNO HOTLINE" offers Electronic Buzzers to meet Control Panel and Control Desk Manufacturers specific requirements.

"VAISHNO HOTLINE" Electronic Buzzer type HSB-96 is designed to provide Audio Annunciation. The output Pitch has been carefully selected in the maximum Sensitivity zone of human Auditory system and the pitch is continuously adjustable over wide range giving pleasing sound to the comfort & convenience of the operator.

The device is fully electronic giving total reliability and long life over that of Electro Magnetic Buzzer & Bell and these are available in three different tones i.e. Single Tone, Two Tone and Three Tone.

Application

(a) Control Panel (b) Control Desk

Technical Specification-

- Panel Cutout size-90mm x 90mm.
- Mechanical Dimension - 96mm x 96mm x 68mm.
- Operating Voltage Range - 80% to 120% of rated voltage.
- Burden less than 15mA at Nominal input.
- Audio output - 1 Watt, 100db ±5%.
- Thermal rating - Continuous at 120% of rated voltage.
- Available in single, two & three tones.

Salient Features-

- Electronic Circuit.
- Long Life.
- Low Power Consumption.
- Generates no radio frequency noise.
- Protect against polarity reversal.
- Suitable for operation on AC or DC.
- Exquisite Appearance.
- Easy flush mounting for Panels.



INDUSTRIAL HOOTER (HH - 000 SERIES)

"VAISHNO HOTLINE" Industrial Hooters are designed for Control rooms, Power Stations and Continuous Process industries. The unit is housed in a dust and vermin proof die cast Aluminium enclosure, surface coated with hard baked paint with an attractive finish. The audio output level ranges from 100 db to 120 db with effective range in normal conditions of noise as 50 meters. Terminal block suitable from 2.5 square mm cable is provided to connect the supply.

"VAISHNO HOTLINE" Hooters are available in a wide range of voltage from 12 V to 440 V AC as well as in DC upto 220 V. Each unit is thoroughly tested for **high voltage, insulation resistance** and **absolute quality**.



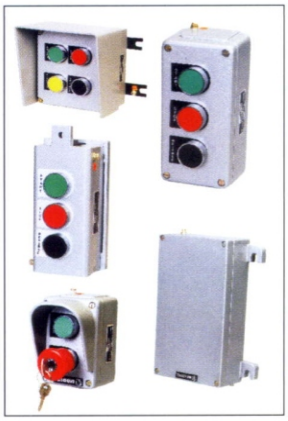
Salient features

- Die cast Aluminium Body
- Terminal provided for power supply
- Range - 12 V to 440 V AC
  - 12 V to 220 V DC
- Highly insulated
- Audio output from 100 db to 120 db
- Operating voltage range - 80% to 120% of Rated Voltage

Application

- Control rooms
- Power Stations
- Industrial Vehicles
- Process Industries

PUSH BUTTON STATIONS



Push button stations are available in Cast Aluminium, Fibre Reinforced Polyester (FRP) and in thermoplastic enclosures with or without canopy having IP-54/IP-55/IP-65 and IP-67 degree of protection consisting of shrouded actuator with 1NO or 1NC or selector, lockable, stayput or illuminated can be provided on request. The push button stations are generally available in standard version from 1 unit to 4 unit and in custom designed version i.e. Duly wired from terminal to contact blocks mounted with ammeter, voltmeter, selector switch, speedometer etc. Colour : light grey shade no. : 631 of IS-5.

PENDENT PUSH BUTTON STATIONS

"VAISHNO HOTLINE" offers Pendent Type Push Button Stations in IP-65 degree of protection in light grey shade no. 631 of IS-5 for crane and hoist application, in Cast Aluminium housing, having standard Spring Return Push Button with 1NO + 1NC contact arrangement. Cable entry will be 3/4" or 19mm from top or bottom. Push Button in different combinations such as Selector, Lockable, Stayput etc. can be provided on request. Legend as per requirement.

JUNCTION BOXES AND EMPTY ENCLOSURES FRP & CAST ALUMINIUM

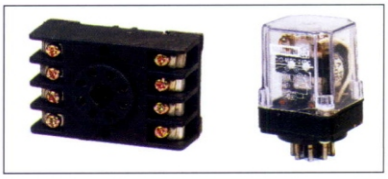
Widest range of Junction Boxes & Empty Enclosures in FRP and Cast Aluminium Enclosure in standard or as per customer specification with IP-54/55 & IP-65 degree of protection and with 2.5 sq. mm. and 4 sq. mm. terminal blocks (from 2 Nos. to 150 nos.). Apart from standard sizes, Junction Boxes in bigger sizes can be manufactured. Colour : Light Grey Shade No. : 631 of IS-5.

RELAYS

"VAISHNO HOTLINE" offers Plug-in-Relays for 1-3 c/o at the rating 24V DC to 250V AC with an operating power at 570-900mW for DC Relay. Dielectric Strength between open contacts 1500 V AC Coil Contact 2000 V AC.

Insulation Resistance at 500V DC at 27°C & 65% RH- 100M.

Base : 5Pins, 8Pins & 11Pins



VAISHNO HOTLINE

The widest range

LIMIT SWITCHES

Can replace the complete Contact Block without changing the operating mechanism. Contacts are double break silver which provide quick make or break with high contact pressure. Lubricant and Dust Protection are achieved by a special gasket.



LIGHT DUTY

Open Execution with Push Rod and/ or Protective Cover. Cast Aluminium body with Push Rod, Normal and Angular Lever.

OIL LIGHT LIMIT SWITCHES IP-67 DOP

In Cast Aluminium body with Push Rod, Normal lever, Angular Lever with Top Push, with Side Push, with Folk Lever, with Adjustable roller lever.



TECHNICAL SPECIFICATION

Utilization Category	:	AC 15 & DC 13 as per IS 1397-5-1 IEC 60947-5-1
Thermal Current	:	10A
Insulation Voltage	:	600V AC
AC -15 Rating	:	6A 110V, 3A 220V, 1.5A- 415V, 1.1A at 550V
DC 13 Rating	:	2.2A- 110 V, 1.1A 220V
Frequency	:	2500 operation per hour
Mechanical Life	:	20 x 10(6)
Enclosure	:	Die Cast Aluminium
Protection	:	IP 65, IP 67
Terminal Capacity	:	2.5 sq. mm

FEATURES

- Totally Dust and Damp Proof
- Completely Oil & Water Tight
- Ample Space for Wiring
- Easy to replace the element
- Thermoplastic Barrier between Terminals to prevent short circuit
- Leaf springs for quick make & break
- Die cast Aluminium body
- Forged lever and Stainless steel parts to avoid corrosion

CONTROL & SIGNALLING DEVICES Ø 22.5mm & Ø30.5mm

The range of 22.5 mm Actuators consist of Plastic (6XV series) and Metallic (2XV series) of Flush, Projecting Booted. Relay Reset, Mushroom, Key Selector and Twin Actuator 2 Pos/ 3 Pos Selector Actuator- Spring Return and Maintained Contact. Confirming to IS 13947 -5 -1 and IEC 60947 -5 -1, Pilot light/ Illuminated Actuator with Filament Lamp, Complete with Bracket, Lamp Holder with or without Resistance in 12V, 24V, 48V, 110V, 230V AC or DC rating. Colours- Red, Green, Yellow, Amber, Blue and White. Contact Element 1NO, 1NC, 1NO+1NC, add on type can go upto 4NO + 4NC contact. Front and Rear connection.

Also available 30.5mm control devices in AS and ST series Spring Return Push buttons, Key Lockable, Mushroom Stayput Type, Two and Three Position Selector Actuators, LED Indicators and Pilot Light units with/without Resistors.

Contact element- 1NO, 1NC, 1NO + 1NC, add on type can go upto 4NO + 4NC contacts. Front and Rear connection. Tested as per IS 13947/ IED 60947-5-1.







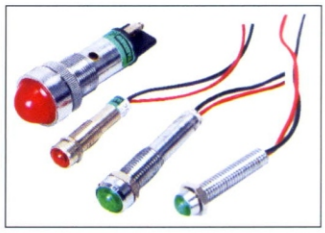
VAISHNO HOTLINE

The widest range

TECHNICAL SPECIFICATION

Conform to	: IS : 13947-5-1 & IEC 60947 : 5-1	Degree of Protection	: IP 65
Rated Operational Voltage UE	: 600V, 50 Hz	Operating Temperature	: -25°C to +70°C
Rated Insulation Voltage Ui	: 500V DC:	Terminal Marking	: 1-2 for NC, 3-4 for NO
Rated Thermal Current	: 10A	Terminal Capacity	: Max 2 x 1.5mm sq. or 1 x 2.5mm sq. Min 1 x .5mm sq
Back up Fuse Rating HRC	: 10A cartridge type	Altitude	: Less than 3000 m
Contact	: Self Wiping Slow Break	Current Rating	: AC 15 4A 415V AC DC 13 0.5A 110V DC
Mechanical Life	: Over 1 million operation		

LED INDICATORS



Suitable for 6.5mm, 8.5mm, 9.5mm, 12.5mm, 14.5mm, 16.5mm, 19.5mm, 22.5mm, 25.5mm, and 30.5mm. For 12V AC/DC to 220V AC/DC applications. Available in Thermoplastic, DMC Moulded enclosure and Brass housing. Tested as per IS- 13947/IEC 60947-5-1.

LED CONTROL & SIGNALLING DEVICES Ø 22.5mm & Ø 30.5mm



Available with 5mm LEDs in cluster of 3, suitable for 12V to 240V input AC/DC applications. Complete range of LED Control and Signalling Devices like Illuminated Spring Return, Twin Illuminated Push Button, Mushroom Stayput, 2/3 position Selector Actuator, Pilot Light unit. Low power consumption mere 0.5W, as compared to conventional 7-10W Filament Type Indicator. Universal LED indicators for common voltages from 24V to 240V AC/DC also available.

CAM OPERATED ROTARY SWITCHES

Cam Switches are being defined as sets of contact arranged to make or break in a sequential fashion, by which the connected outputs will close and open the circuits. CAM does the function of opening and closing by the contacts, have multiple positions which allow multiple circuit functions controlled through a single operation.

TECHNICAL SPECIFICATION

Conform to	: IS 13947-5-1 & IED 60947-5-1
Mechanical Life	: 1 million operation
Maximum Switching	: 300 operation per hour
Operating Temperature	: 25 deg C to + 55 deg. C
Rated Voltage	: 415V AC / 240V DC
Rated Insulation Voltage	: 600V AC
Current Rating	: 6/10/16, 25/32, 40/63, 100, 125, 150, 200
Single Stand sq. mm	: 2.541625
Multiple Strand sq.mm	: 1.5 2.5 10 16
Terminal Screen	: M3 M4 M10 M10



ADVANTAGES	TYPE OF SWITCHES	CONSTRUCTION	FRONT PLATES	LOCKING DEVICE
Double Break Mechanism	Isolators	HG-3 sets of contacts 120 deg. Disposition	48 x 48 mm	Round Padlock
No Flashes / Archin	Change Over	H 2 sets of contacts 180 deg. Disposition	48 x 48 mm	Square Padlock
Compact Design	Multistep	HS square type -2 sets of contacts	48 x 48 mm	Lock & Key
Padlocking Facility	Selector			
Aesthetic Look	Control			
Unbreakable	Motor Duty Sequential			
International Construction				

VAISHNO HOTLINE

The widest range

NEON JEWEL LIGHT



Neon Jewel Lights are available in rectangular, round and square shape with nut fixing and with lead and brass terminals and screw connection suitable for Ø7, Ø8, Ø10, Ø13, Ø17 & Ø19. For front rectangular shape in fixing jewel light is available in Panel Cutout 28 x 18mm size. Colours available are red, green, amber, yellow and blue.

HRC FUSE HOLDERS & FUSE BASES

"VAISHNO HOTLINE" offers a versatile range of FUSE HOLDERS consisting of Fuse carriers & Fuse bases moulded out of high grade flame retardant, non-hygroscopic Phenolic Moulding Powder conforming to IS : 1300 / BS : 771 with a high gloss black finish. All the current carrying non-ferrous parts are tin / silver plated to ensure better conductivity & to prevent oxidation while all ferrous parts are zinc plated to avoid rusting.



They are simple in construction with minimum number of components. Carrier contacts and Base contacts are mounted using location ridges formed on the mouldings, assuring perfect alignment. 20A. Fuse carriers have a single piece Phosphor bronze clip, while all other type Fuse carriers have a single piece press brass spin riveted contact. The base is also made up of a single piece extruded brass tinned contact having adequate size of cable hole to accommodate aluminium cable.

Stringent quality control during production ensures excellent end product. A well equipped test laboratory as per IS: 13703 / IEC 60267 is the key to quality adherence.

Specifications:-

Description- Fuse holders for LV Industrial Fuse Links, clip on and bolted type.
Application- Control Equipments, Circuit and Motor Production, Lighting and heating Equipments.
Ratings- (a) Volts- 550V AC, (b) Amp- 20A- 125A
Breaking Capacity- 80kA
Rated frequency- 50Hz/ 60Hz
Material- Industrial grade non hygroscopic, phenolic moulding.
Mounting Type- Screw/ Stud/ Bus Bar

FUSE BASES

VAISHNO HOTLINE offers a wide range of FUSE BASES to take high breaking capacity fuse links. These bases have a special type of silver plated contacts made out of electrolytic copper for low watt loss. The base is moulded out of high grade flame retardant, non-hygroscopic phenolic moulding powder conforming to IS: 1300 / BS771 with a high gloss finish. These Bases can also be supplied with glass reinforced polyester (DMC) moulding for better mechanical & electrical properties. A spring steel rings maintain their intrinsic elasticity even at elevated temperatures.

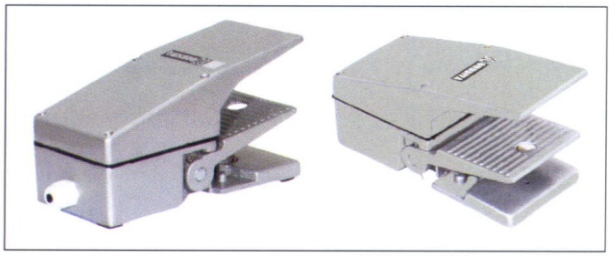
Specifications:-

Description- Fuse holders for LV Industrial Fuse Links, clip on and bolted type.
Application- Control Equipments, Circuit and Motor Production, Lighting and heating Equipments.
Ratings- (a) Volts - 550V AC, (b) Amp - 160A - 630A,
Breaking Capacity- 80kA
Rated frequency- 50Hz/ 60Hz
Material- Industrial grade non hygroscopic, Phenolic Moulding/ Reinforced Polyester (DMC).
Mounting Type- Stud



FOOT SWITCH

"VAISHNO HOTLINE" foot switches are designed to open and close either AC or DC pilot circuits. The contact mechanism has single pole double throw twin break silver contacts 1NO + 1NC and double pole double throw 2NO + 2NC block. The aluminium enclosure has water and oil tight features, with or without shield and guard.



VAISHNO HOTLINE
The widest range

ANALOG & DIGITAL PANEL METERS

The movements are strongly constructed incorporating Synthetic Sapphire Jewel Bearings, Hard Chrome Plated, Highly Polished Pivot and Phosphor Bronze Cadmium Copper Hair Springs. Moving Coil Meters are fitted with high flux density Magnets resulting in zero scale. All these Meters have zero adjusts accessable from the front. Changing of scale is so easy and no tool is required. A guide slot have been provided to remove the scale without damages to the pointer mechanism. Analog Meters are subjected to various tests as per IS 1248-93 such as vibration, life, overload, voltage breakdown, insulation and accuracy tests.



FEATURES

- FR Grade GF Polycarbonate UL 94VO : Swivel Captive Fasteners
- Slim Line Bezel : Vertical Mounting
- Standard Glass Window : IP 52 Enclosure

RANGES

- Cutout Size : 72 x 72mm, 96 x 96mm, 144 x 144mm
- Range : Voltmeter / Ammeter both AC/DC Power Factor Frequency

Digital Panel Meters are available in good Aesthetic finish. Housing moulded out of Industrial Grade Engineering Plastic. Range includes Amp, Volt, Frequency, Power Factor and Watt/VA/VAR. The sizes of Digital Panel Meter are 48 x96 mm, 72x 72mm, 96 x 96mm and 144 x 144mm in 3 ½ & 4 ½ digit. However Frequency Meter has four digits.

TYPES

Ammeter + Voltmeter + Frequency Combined Unit with or without Selector Switch
Ammeter + Voltmeter Combined Unit with or without Selector Switch
Digital 3 Phase Voltmeter (All Phases)
Digital 3 Phase Ammeter (All Phases)
Digital Power Factor (Microprocessor controlled)

RANGES

- Voltmeter in AC = 0- 2V, 0- 20V, 0- 200V, 0- 500V, 0- 750V
- Voltmeter in DC = 0- 2V, 0- 20V, 0- 200V, 0- 500V, 0- 1000V
- Watt/VA/VAR = 1A or 5A and 110/250/440 for single & three phase
- Power Factor = Same as above and load. The range is 0.1Lag 1.0.1 Lead
- Ammeter in AC = 0- 200mA, 0-2A, 0-20A
- Ammeter in DC = 0-2mA, 0-20mA, 0-200mA, 0-2A, 0-20A
- Frequency = 10 to 100Hz, 10 to 1000Hz

CURRENT TRANSFORMERS

Current Transformers reproduces proportionate primary current on its secondary side required for extending the range of the instruments or protective devices connected to its Secondary circuit.



Type available : Tape Wound, CAST Resin

CORE: Toroidal core of high permeability silicon steel.

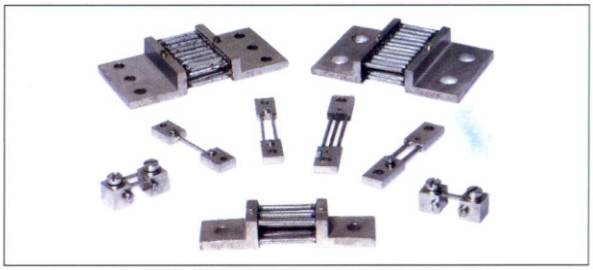
METERING CT: Accuracy will be selected on the basis of the instrument i.e. when installed at a far away from CT the secondary is chosen at 1A instead of 5A.

PROTECTION CT: Meant for Circuit Breakers & Relays

WOUND PRIMARY: When the ratio is low it becomes difficult to obtain good result with single & primary turn. For this both primary & secondary turns are wound on the toroidal core.

DC SHUNTS

SHUNTS produces millivolt drop against its terminals when current is passed through it. Generally, the shunts will be used in DC currents. These are all made of Manganin Wire/ Rods, Soldered / Silver Brazed to Brass and blocks.



Range 50mA to 1000Amps. With drop range from 50mV, 75mV, 100mV, 150mV & 200mV.

OUR CHANNEL PARTNER

VAISHNO HOTLINE
The widest range

Hotline Switchgear & Controls
(ISO 14001 : 2004 CERTIFIED COMPANY)

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