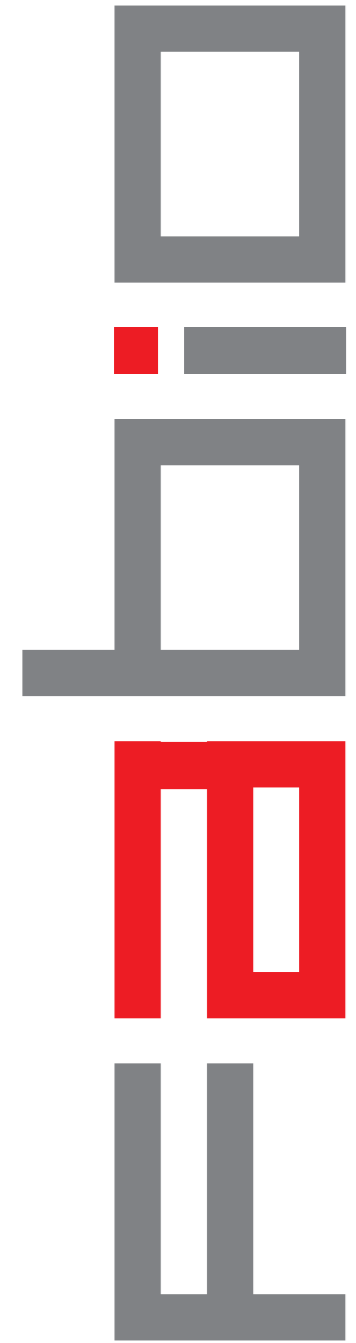




HAVELLS

**SWITCHES THAT
FIT ANYWHERE**

Fabio



SWITCHES THAT TILT SO YOUR ROOM DOESN'T

We know how carefully you've designed your home. And that is why we wouldn't want you to make any changes to it.

Presenting havells fabio, a unique range of switch plates that give you the flexibility of installing them vertically, or horizontally, as per the available space. It comes with best-in-class safety and design features. Its contemporary design and unique Dual orientation makes them fit beautifully, without disturbing the décor of your home.



DESIGNED TO LEAVE HEADS TILTING

Sleek Plate

Sleek 6mm plates with smooth contours to adorn your wall.

Soft Action Switch

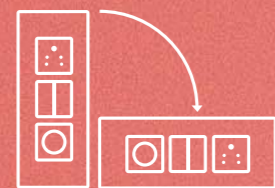
Fitted with soft action switches that ensure less sound and comfortable usage.



DESIGNED FOR CONVENIENCE

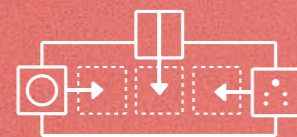
Dual Orientation

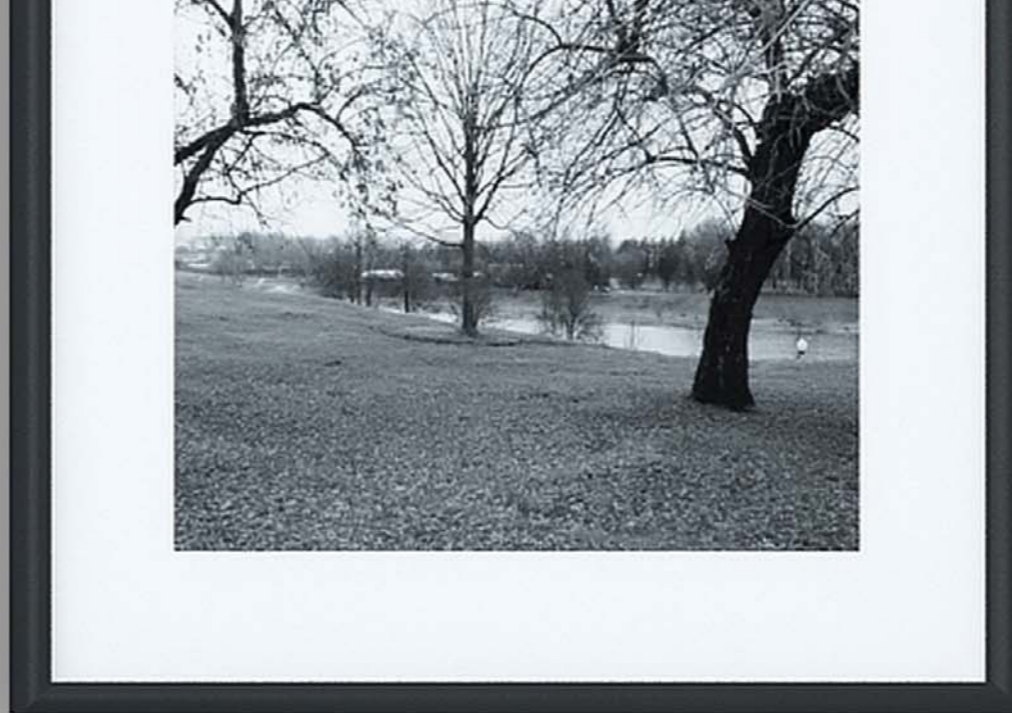
Unique switch plates that can be used both horizontally and vertically depending upon the space on the walls.



Easy Installation

Fitted with shrouded terminals, captive screws and highly engineered snaps that ensure swift front loading and removal.





DESIGNED FOR SAFETY

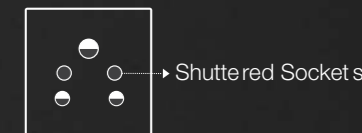
Arc Shield

Engineered with Arc Shield technology for zero visibility of sparks.



Shuttered Sockets

Fitted with modern shuttered sockets for complete safety against electric hazards.



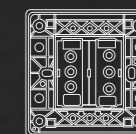
BIS Approval

All switches, sockets and regulators are designed as per the BIS standards of electrical safety.



Multi-rib Design

Innovative multi-rib design for enhanced strength and durability.



DESIGNED TO FIT ANYWHERE

HEALTHCARE

COMMERCIAL

HOSPITALITY

RESIDENTIAL

SWITCHES



10AX One way switch



10AX One way switch with indicator



10AX Two way switch



10AX Bell push switch



10AX Bell push switch with indicator



10AX Mega bell push switch with indicator



10AX Mega Switch with indicator



10AX Mega Two way switch



10AX Mega Two way switch



16AX One way switch



16AX One way switch with indicator



16AX Two way switch



20A DP Switch with indicator



32A DP switch with indicator

SOCKET



6A 5Pin socket



6A 2 pin socket



6A 3 pin socket



6/16A Socket



Universal Socket



25A Socket

SWITCHES

Feature:

- Positive action rocker switches with soft switching mechanism
- Switches with X rating: designed for inductive and resistive loads
- Arc Shield enclosure – minimizes the visibility of arc
- 3mm minimum switch contact gap between the terminals
- Switches with silver cadmium contacts for long life and continuity
- Self-lubricating plunger made of Zytel for high mechanical life
- Captive screws making this fast and easy to install
- Engineered with flexible legs for easy installation with front loading and removal
- Laser marking on the switch for easy identification of terminals, range name, and wire cut marking
- IP20 for complete protection
- RoHS Compliant range
- Tested for 200,000 operations of life endurance

Standards and Approvals:

- All switches complies to IS 3854 : 1997

Technical specifications:

Electrical:

- Voltage rating: 230V
- Nature of supply: 50Hz
- Current rating: 10AX, 16AX, 20ADP, 32ADP
- Contact gap: 3mm
- Terminal Capacity:
 - 10AX/16A: 4x 1 Sq.mm, 4x 1.5 Sq.mm, 3x 2.5 Sq.mm, 2 x 4 Sq.mm, 1 x 6 Sq.mm
 - 20A DP/32ADP: 4x 4 Sq.mm, 3x6 Sq.mm, 1x 10 Sq.mm, 1 x 16 Sq.mm
- Max load: 10AX: 1.84kW, 16AX:2.94kW

Mechanical:

- Ambient Operating temp: -5°C to +60°C
- IP rating: IP20
- Module Size: 2M: Dimension: 45mm x 45mm
- Module Size: 1M: Dimension: 22.3mm x 45mm

SOCKET

Features

- All sockets designed with Child safety shutters
- Chamfered design shutter for easy operation
- Firm and rigid engagement for different types of plug tops
- 5 Pin socket are also designed for 16.5 mm CD 2 pin plugs
- Solid brass terminals for better conductivity
- Engineered with flexible legs for easy installation with front loading and removal
- Captive screws for easy and fast installation
- IP20 for complete protection
- Laser marking on the switch for easy identification of terminals, range name, and wire cut marking
- RoHS Compliant range
- Tested for 10,000 operations for endurance

Standards and Approvals:

- All sockets complies to IS 1293-2005

Technical specifications:

Electrical:

- Voltage rating: 240V
- Nature of supply: 50Hz
- Current rating: 6A, Terminal Capacity: 1.5 Sq. mm
- Current rating: 6/16A, Terminal Capacity: 2.5 Sq. mm
- Current rating: 10/25A, Terminal Capacity: 2.5 Sq. mm
- Current rating: 6/10/13A, Terminal Capacity: 2.5 Sq. mm

Mechanical

- Ambient Operating temp: -5°C to +60°C
- IP rating: IP20
- Module Size: 2M: Dimension: 45mm x 45mm
- Module Size: 1M: Dimension: 22.3mm x 45mm

FAN REGULATOR & DIMMER



1M Fan speed controller



5 step Fan speed controller



400W Dimmer



5 step Fan speed controller with (ISI) mark

MOTOR STARTER & MINI MCB



20A Motor Starter



25A Motor Starter



32A Motor Starter



10 A SP 'C' MINI MCB



16 A SP 'C' MINI MCB



20 A SP 'C' MINI MCB



25 A SP 'C' MINI MCB

FAN REGULATOR

Features

- Ergonomically designed directional knob with 360° rotation
- 4 and 5 step fan controller with incremental steps across all steps
- New ISI marked Fan regulator in 5 step regulator for any specific requirement
- Hum free design
- High insulation resistance – More than 1000MΩ
- Featured with Safety capacitors to avoid burning of regulators
- Engineered with flexible legs for easy installation with front loading and removal
- Laser marking on the product

Standards and Approvals:

- Five step fan regulator complies to IS 11037 : 1984

Technical specifications:

- 2M 120 Watts High speed fan regulator

Electrical:

- Voltage rating: 230V
- Nature of supply: 50Hz
- Rated Power: 120W Max calibrated for high speed fans
- Rated Power: 100W Max for 1M Fan regulator

Mechanical:

- Ambient Operating temp: -5°C to +60°C
- No of steps: 4 & 5
- IP rating: IP20
- Module Size: 2M: Dimension: 45mm x 45mm
- Module Size: 1M: Dimension: 22.3mm x 45mm

MINI MCB

Features

- Modular design Mini MCB
- Better aesthetics as it replaces the plug and socket application
- Available from 10A, 16A, 20A, 25A and 32A rating
- C curve rated
- Silver graphite contacts
- Trip free mechanism
- Overload and short circuit protection
- IP20 for complete protection
- RoHS Compliant range

Technical specifications:

Electrical:

- Rated Voltage: 240V
- Rated Current: 10A, 16A, 20A, 25A and 32A
- Frequency: 50Hz
- No of poles : Single pole
- Min Voltage: 50V
- Rated short circuit capacity: 3KA
- Terminal Capacity: 2.5 mm Sq
- Dimension: 22.5mm x 45mm

DIMMER

Features

- Linear brightness control dimmer with smooth rotation
- Full rated dimmers with front loading and removal
- Engineered with flexible legs for easy installation with front loading and removal

Technical specifications:

Electrical:

- Voltage rating: 240V
- Nature of supply: 50Hz
- Rated Power: 1000W Max
- Type of load: Incandescent lamps only

Mechanical – Common for both Regulator and Dimmer

- Ambient Operating temp: -5°C to +60°C
- IP rating: IP20
- Module Size: 2M
- Dimension: 45mm x 45mm

MOTOR STARTERS

Features

- Thermal overload protection inbuilt
- Overload and short circuit protection
- Separate switches to ON and OFF
- Engineered with flexible legs for easy installation with front loading and removal
- IP20 for complete protection
- Marking for easy identification of terminals
- Flame retardant, UV stable, High gloss poly carbonate for safe and reliable product
- RoHS Compliant range

Standards and Approvals:

- Technical and construction features complies to IS 3947-4

Technical specifications:

Electrical:

- Rated Voltage: 240V
- Rated Current: 20A, 25A and 32A
- Frequency: 50Hz
- Terminal Capacity: 2.5 Sq. mm

Mechanical:

- Ambient Operating temp: -5°C to +60°C
- IP rating: IP20
- Module Size: 2M Dimensions : 45mmx45mm
- Dimension: 45mm x 45mm

COMMUNICATION MODULES



Telephone socket - 1M



Twin Telephone socket



Computer Jack



TV Socket



USB Socket



Indicator



1M Dummy plate

LED FOOT LAMP



Footlamp

DATA SOCKETS-RJ45

Features

- Cat6 compliant RJ45 jack
- Tool free connector – making it easy to install
- Spring loaded shutter for dust free operation
- Marking for easy identification of terminals
- Engineered with flexible legs for easy installation with front loading and removal

Technical specifications:

Electrical:

- No of contacts: 8
- Speed of transmission: 250Mhz 100Ω UTP Cable
- Rate of Transmission: 1 GB/ sec
- Insulation resistance: >500 MΩ
- Current rating: 150VAC, 2A
- Dielectric withstand voltage: 1000V, 60Hz/1min
- Current resistance: <20 millΩ
- DC Resistance: 0.1 Ω

VOICE SOCKET – RJ11

Features

- Screw type terminals to avoid loose contact
- Spring loaded shutter for dust free operation
- Marking for easy identification of terminals
- Twin RJ11 socket is also available
- Engineered with flexible legs for easy installation with front loading and removal

Technical specifications:

Electrical:

- No of contacts: 2
- Category: 3
- Voltage: 33V rms/70V DC
- Speed of transmission: 16Mhz 100Ω UTP Cable
- Rate of Transmission: 10Mbps

TV SOCKET

Features

- Plated terminals for min signal loss
- Flame retardant, UV stable, High gloss poly carbonate for safe and reliable product
- Tested for 10,000 operations for mechanical endurance

Mechanical:

- Ambient Operating temp: -5°C to +60°C
- IP rating: IP20
- Module Size: 1M
- Dimension: 22.5mm x 45mm

USB SOCKET

Features

- Twin USB socket - 2 x 1.0A, 1x2.1A (max 2.1A output)
- In built hand shaking feature and surge protection only in twin USB socket
- Short circuit protection available in the output
- Screw type terminals to avoid loose contact
- Engineered with flexible legs for easy installation with front loading and removal
- Marking for easy identification of terminals
- RoHS Compliant range

Technical specifications:

Electrical:

- Input Voltage: 240V
- Frequency: 50Hz
- Input Power: 300mW
- Output voltage: 5V
- Output current: 2.1Amp max
- Output Power: 10watts max

Mechanical:

- Ambient Operating temp: -5°C to +60°C
- IP rating: IP20
- Module Size: 1M
- Dimension: 22.3mm x 45mm

LED FOOT LAMP

Features

- Long life white colour LED based illumination
- Power consumption is less than 2W
- Textured lens for uniform light dispersion
- IP20 for complete protection
- Cool white colour LED
- Engineered with flexible legs for easy installation with front loading and removal

Technical specifications:

Electrical:

- Rated Voltage: 240V
- Frequency: 50Hz
- Terminal Capacity: 2.5Sq. mm

Mechanical:

- Ambient Operating temp: -5°C to +60°C
- IP rating: IP20
- Module Size: 2M
- Dimension: 45mm x 45mm

HOSPITALITY RANGE



30A Key tag Mechanical



30A Key tag with time delay



DND and MMR outdoor pane



MMR Indoor panel



Shaver socket



Facia Like Usb

USB Socket for data transmission



HDMI Socket



VGA Socket



RCA Socket



Buzzer



Detachable Emergency Lamp



Chime

DND AND MMR SWITCH AND INDICATORS

Features

- Outside panel - DND and MMR indicator in 1M
- DND and MMR switch in 1M each
- Laser engraved marking for better visibility
- LED indicators for long life and consistent glow
- Two way switch for DND switches to mute the bell in DND mode if wired
- One way switch for MMR switches
- Low consumption of power and long life because of LED
- Engineered with flexible legs for easy installation with front loading and removal

Technical specifications: Electrical Specifications:

- Rated Voltage: 240V
- Frequency: 50Hz
- Terminal Capacity: 2.5Sq mm

Mechanical:

- Ambient Operating temp: -5°C to +60°C
- IP rating: IP20
- Dimension: 22.5mm x 45mm

ELECTRONIC KEY TAG SWITCH WITH TIME DELAY

Features

- 20A Electronic Key tag switch in 2M
- LED marking for Key card slot as locator in dark
- Sensor based switching mechanism for more operating life and better contact
- 30 sec off time delay for the customer convenience
- Designed to take in magnetic door lock cards
- Designed for EB and Genset power for input current
- Engineered with flexible legs for easy installation with front loading and removal

Technical specifications: Electrical Specifications:

- Rated Voltage: 240V
- Frequency: 50Hz
- Load capacity: 20A
- Terminal Capacity: 2.5Sq. mm

Mechanical:

- Ambient Operating temp: -5°C to +60°C
- IP rating: IP20
- Module Size: 2M
- Dimension: 45mm x 45mm

MECHANICAL KEY TAG SWITCH WITH TIME DELAY

Features

- 20A DP switch operated by latch in 2M

Technical specifications: Electrical Specifications:

- Rated Voltage: 240V
- Frequency: 50Hz
- Load capacity: 20A DP
- Terminal Capacity: 2.5Sq mm

Mechanical:

- Ambient Operating temp: -5°C to +60°C
- IP rating: IP20
- Module Size: 2M
- Dimension: 45mm x 45mm

Installation:

- Please follow the instruction leaflet for assembly of the product

HD15 SOCKET, HDMI SOCKET, USB DATA PORT,

Used to connect electronic devices where in customer wants to use the socket for data transfer through HD15, HDMI, USB modules

Features

- Modular in design –1M
- Front loading and removal
- IP20
- HD15, HDMI and USB data socket are provided with female connector cable for easy installation with cable length of 100mm
- Triple RCA are supplied with terminal block

Mechanical:

- Ambient Operating temp: -5°C to +60°C
- IP rating: IP20
- Module Size: 1M
- Dimension: 22.3mm x 45mm

SHAVER SOCKET

Features

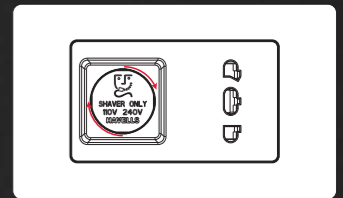
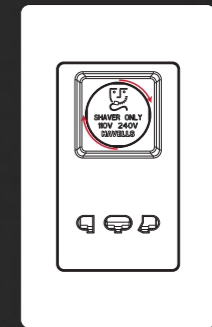
- Rotating window text option
- Can be mounted for both horizontal and vertical orientation
- Engineered with step down transformer to take in 110v and 230V
- Designed to take in international 2 pin sockets
- Shutter socket for better safety
- Mono- block design
- IP20
- Safety overload protection

Technical specifications: Electrical Specifications:

- Rated Input Voltage: 240V
- Output voltage: 110V/230V
- Output power: 15VA (Max) shaver only
- Frequency: 50Hz
- Terminal Capacity: 4Sq. mm

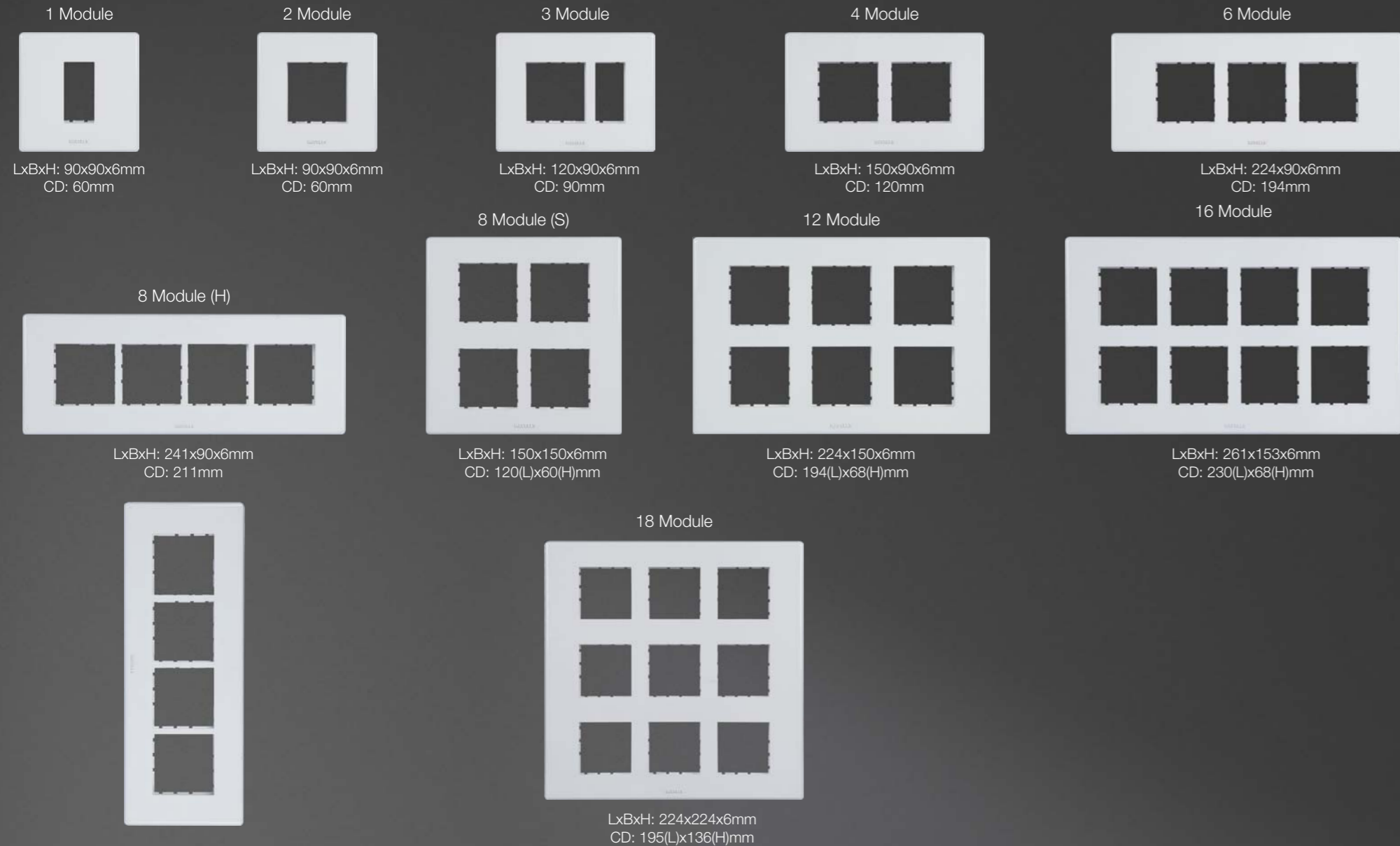
Mechanical:

- Ambient Operating temp: -5°C to +60°C
- IP rating: IP20
- Monoblock design : 4M size



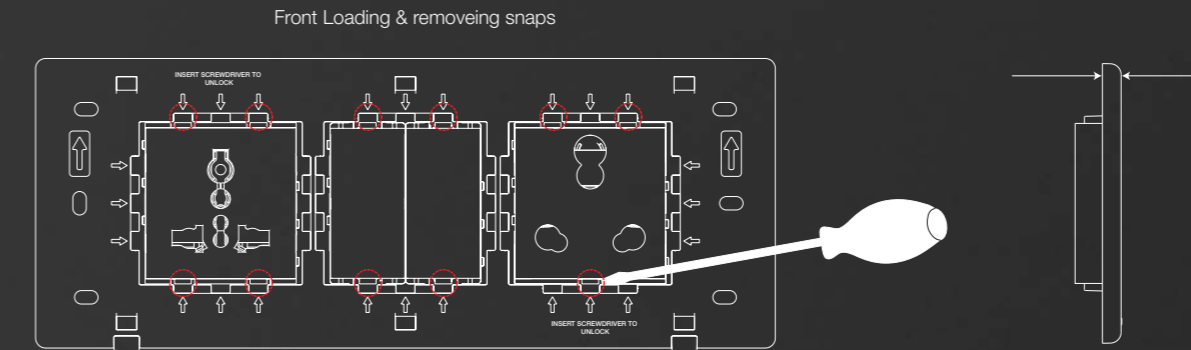
Rotating text window for horizontal & vertical mounting of shaver socket which ensures better user experience

FRONT PLATES



FRONT PLATES FEATURES

- 6mm slim sturdy design plate
- Engineered with front loading and removal feature
- Highly engineered front plates to withstand abuse during installation
- Dust repulsive design plate for easy maintenance
- Screw driver guide and marking for easy installation
- Accessories rotation feature from 4M plate on wards
- Multi rib design on the grids for more strength
- Snap fit front plates with easy removal feature and fast installation
- Fire retardant engineering plastic which conforms to glow wire test at 650°C
- RoHS Complaint range



MANUFACTURING PROCESS



INJECTION MOULDING

- In house facility with centralized PLC controlled material feeding system & de-humidifier
- Latest machines from L & T Demag
- On-line data recording of process control parameters
- Automated machine maintenance monitoring system
- Future plan for robotic systems



CNC MACHINES

- Charmilles Switzerland-Best name in the world
- Auto programming on Wire Cut
- 100% safety through fume extraction system



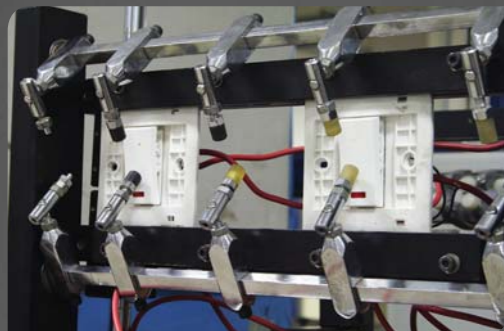
MATERIAL HANDLING SYSTEM

- Special Purpose Machines for 100 % online testing
- Chattering Test
- HV testing
- Contact Resistance Test
- Force to operate
- Load Test



TEST LAB

- Test Lab in Baddi is well equipped with all the latest equipments as per BIS requirement
- All Mechanical, Electrical & Visual parameters are being checked in Lab
- All type of Tests Like Routine, weekly, Quaterly & Yearly Tests are being performed as per STI (scheme of Testing & Inspection)



SPM SWITCH TESTING

- SPM Screw Tightening & Testing for Athena
- Continuity
- Screw Tightening at set torque
- Contact resistance
- Chattering (Zero Contact error)-Unique Feature
- High Voltage Current
- Force to operate Switch-Unique Feature

WARRANTY

Havells shall repair or replace products, at their discretion, if the products are found to be defective, solely as a result of faulty material and/or workmanship, within 10 years from the date of purchase, in the case of Electro-mechanical wiring device products. The guarantee for all mains related Electronic wiring products viz. dimmers, step fan regulators and indicator modules shall be for a period of two year from the date of purchase. For color range warranty is for 2 years against any color related issues. Warranty on Accessories is for 1 year.

GuaranteedoesnotincludeHavellsmountingboxes.TheguaranteedefinestheCompany'sentireliabilityanddoesnotcoverconsequentiallossordamage,orreinstallationcostarisngfrom defective product. The Company reserves the right to change/improve the design, without prior notice. In such cases, replacements shall be carried out, with design of the accessories prevailing at that point in time.

The guarantee for all products shall be rendered null & void:

- 1) If the product is altered , dismantled or rectified.
- 2) If the original Havells mounting boxes have not been used to mount the plates and accessories.

10
YEARS WARRANTY

REGIONAL & BRANCH OFFICES

REGIONAL & BRANCH OFFICES:

NORTH - REGIONAL OFFICE: CORPORATE OFFICE: QRG TOWERS, 2D, SECTOR-126, EXPRESSWAY, NOIDA-201304, TEL: 0120-3331000, DELHI: TEL: 011-47676700, 23888200, CHANDIGARH: TEL: 0172-4232400-401, DEHRADUN: TEL: 0135-6670202, NOIDA / HARYANA: TEL: 0120-3331000, LUDHIANA: TEL: 0161-4676000 / 24, JAMMU: TEL: 0191-2478330, 2479330, SRI NAGAR: TEL: 0194-2490431, JAIPUR: TEL: 0141-3914645, 3988210, JODHPUR: TEL: 0291-9214201640 / 45, LUCKNOW: TEL: 0522-6672100, KANPUR: TEL: 0512-6710400, 6710409 **EAST - REGIONAL OFFICE:** KOLKATA: IOC TOWER, 5TH FLOOR, 4 INDIA EXCHANGE PLACE, KOLKATA-700001, TEL: 033-40129851/ 52, BHUBANESHWAR: TEL: 0674-6668101/102/103/104, GUWAHATI: TEL: 0361-2134521, 2458923, 2460355, SILIGURI: TEL: 0353-2525907, RANCHI: 0651-2244861, 2244862, 2244864, 2244868, 2244869, JAMSHEDPUR: TEL: 0657-6542492, 09234369436, PATNA: TEL: 0612-2207221, 2207222, 2207223, 2655518

WEST - REGIONAL OFFICE: MUMBAI: 1271, SOLITAIRE CORPORATE PARK, BLDG. NO. 12, 7TH FLOOR, ANDHERI - GHATKOPAR LINK ROAD, CHAKALA, ANDHERI (EAST), MUMBAI- 400093. PH.: 022 - 67298600-602, AHMEDABAD: TEL: 079-40061111, 40060738-740, INDORE: TEL: 0731-2572340-41, 4009998 (AIRTEL), RAJKOT: TEL: 0281-2481112, 2921212, NAGPUR: TEL: 0712-2240932, 2242692, 2242699, PUNE: TEL: 020-64016413 / 14, RAIPUR: TEL: 0771-4243400 / 01, SURAT: TEL: 0261-2350137, 9979890137, JABALPUR: TEL: 0761-4064491

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REPRESENTATIVE OFFICES: • GOA • SOLAPUR • GWALIOR • KATHMANDU • BHOPAL



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