

**YOUNG ENERGY LOOKS
AT THINGS THE NEW WAY.**



Standard ZOE Switches Catalogue

ADD A DASH OF YOUNG ENERGY TO YOUR HOME

Let your home reflect your lively personality with Standard Zoe, an exciting range of colourful dual orientation switches built for Young Energy. With an innovative, yet user-friendly design that lets you install it vertically or horizontally, along with world-class safety features, now adorn your walls with switches that are an extension of your persona.





BECAUSE YOUNG ENERGY DESERVES YOUNG ENERGY

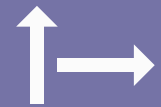
Dual Tone Finish

Styled with edgy matte and glossy finishes to take your home décor to the next level.



Dual Orientation

Innovative dual orientation design that lets you install ZOE vertically or horizontally as per your wish.



Soft Action Switches

Engineered with user-friendly soft action switches for ease of use.



Quick Installation

Enjoy easy and speedy installation with shrouded terminals, captive screws and highly engineered snaps that ensure swifter front loading and removal.



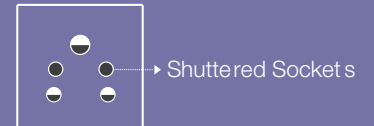
Arc Shield

Engineered with Arc Shield technology for zero visibility of sparks.



Shuttered Sockets

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



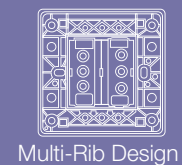
BIS Approval

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.



CARMINE RED

Spread warmth in the room with the soothing Carmine Red switch plates that ooze comfort.



LEMON YELLOW

Showcase your creativity to the world with the Lemon Yellow switch plates that light up every room.



ASH GREY

Enhance the beauty of your décor with the subtle Ash Grey switch plates.



CARAMEL BROWN

Show your classy side with the rustic Caramel Brown switch plates and let its beauty speak for itself.



RAVEN BLACK

You can't go wrong with black. Select the glamorous Raven Black switch plates and showcase the edgy side of you.



WHITE

Express your simplicity with Standard ZOE White switch plates.



SWITCH MODULE



10 A One way switch



10 A One way switch with indicator



10 A Two way switch



10 A Bell push switch



10 A Bell push switch with indicator



10 A Mega One way switch with indicator



10 A Mega bell push switch with indicator



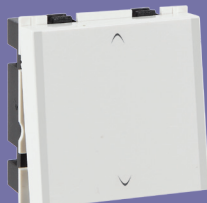
16 A One way switch



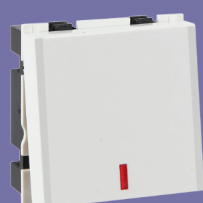
16 A One way switch with indicator



16 A Two way switch



10 A Mega Two way switch



20 A DP switch with indicator



32 A DP switch with indicator

SWITCHES

Feature:

- Double tone switch knob desing
- 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 Lubricom 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: 230 V
- Nature of supply: 50 Hz
- Current rating: 10 A , 16 A , 20 A DP, 32 A DP
- Contact gap: 3 mm
- Terminal Capacity:
 - 10 A /16 A : 4 x 1 mm², 4 x 1.5 mm², 3 x 2.5 mm², 2 x 4 mm², 1 x 6 mm²
 - 20 A DP / 32 A DP: 4 x 4 mm², 3 x 6 mm², 1 x 10 mm², 1 x 16 mm²
- Maximum load: 10 A : 1.84 kW, 16 A : 2.94 kW

Mechanical:

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

SOCKET MODULE



6 A 2 pin socket



6 A 3 pin socket



6 A 5 Pin socket



Universal Socket



6 / 16 A Socket



25 A Socket

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 comply to IS 1293-2005

Technical specifications:

Electrical:

- Voltage rating: 240 V
- Nature of supply: 50 Hz
- Current rating: 6 A, Terminal Capacity: 1.5 mm²
- Current rating: 6 / 16 A, Terminal Capacity: 2.5 mm²
- Current rating: 10 / 25 A, Terminal Capacity: 2.5 mm²
- Current rating: 6 / 10 / 13 A, Terminal Capacity: 2.5 mm²

Mechanical

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

FAN REGULATOR & DIMMER



1 Module Step
Fan regulator



2 Module Step
Fan regulator



2 Module Step
Fan regulator with
(ISI) mark



400 W Dimmer

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 1000 mΩ
- 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

Electrical:

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

Mechanical:

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

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: 240 V
- Nature of supply: 50 Hz
- Rated Power: 400 W Maximum
- 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: 2 Module
- Dimension: 45 mm x 45 mm

MOTOR STARTER & MINI MCB



20 A Motor Starter



25 A Motor Starter



32 A Motor Starter



16 A SP 'C' Mini
MCB



20 A SP 'C' Mini
MCB



32 A SP 'C' Mini
MCB

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: 240 V
- Rated Current: 20 A, 25 A and 32 A
- Frequency: 50 Hz
- Terminal Capacity: 2.5 mm²

Mechanical:

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

MINI MCB

Features

- Modular design Mini MCB
- Better aesthetics as it replaces the plug and socket application
- Available from 10 A, 16 A, 20 A, 25 A and 32 A 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: 240 V
- Rated Current: 10 A, 16 A, 20 A, 25 A and 32 A
- Frequency: 50 Hz
- No of poles : Single pole
- Min Voltage: 50 V
- Rated short circuit capacity: 3 KA
- Terminal Capacity: 2.5 mm²
- Dimension: 22.5 mm x 45 mm

COMMUNICATION MODULES



Computer Jack



Telephone socket



Twin Telephone socket



TV Socket



Indicator

DATA SOCKETS-RJ45

Features

- Cat 6 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: 250 MHz 100 Ω UTP Cable
- Rate of Transmission: 1GB/ s
- Insulation resistance: >500 m Ω
- Current rating: 150 VAC, 2 A
- Dielectric withstand voltage: 1000 V, 60 Hz / 1 min
- Current resistance: < 20 m Ω
- DC Resistance: 0.1 Ω

Technical specifications:

Electrical:

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

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: 1 Module
- Dimension: 22.5 mm x 45 mm

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

FOOTLAMP, CHIME & BUZZER



USB Socket



Footlamp



Detachable
Emergency Lamp



Chime



Buzzer



Dummy plate

USB SOCKET

Features

- Twin USB socket - 2 x 1.0 A, 1 x 2.1 A (maximum 2.1 A 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: 240 V
- Frequency: 50 Hz
- Input Power: 300 mW
- Output voltage: 5 V
- Output current: 2.1 A maximum
- Output Power: 10 W maximum

Mechanical:

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

LED FOOT LAMP

Features

- Long life white colour LED based illumination
- Power consumption is less than 2 W
- 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: 240 V
- Frequency: 50 Hz
- Terminal Capacity: 2.5 mm²

Mechanical:

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

ELECTRONIC CHIME

Features

- Modular in design: 2 Module
- Aesthetically blends with the existing front plates.
- Front loading and removal
- IP20
- Marking for easy identification of terminals
- Safety overload protection
- Flame retardant, UV stable, High gloss poly carbonate for safe and reliable product
- RoHS Compliant range

Electrical Specifications:

- Rated Input Voltage: 240 V
- Sound output: 90 dB
- Rated current: 6 A
- Terminal Capacity: 1.5 mm²

HOSPITALITY RANGE



DND and MMR
outdoor pane



MMR
Indoor panel



30 A Key tag
with time delay



30 A Key tag
Mechanical

DND AND MMR SWITCH AND INDICATORS

Features

- Outside panel - DND and MMR indicator in 1 Module
- DND and MMR switch in 1 Module 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: 240 V
- Frequency: 50 Hz
- Terminal Capacity: 2.5 mm²

Mechanical:

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

ELECTRONIC KEY TAG SWITCH WITH TIME DELAY

Features

- 20 A Electronic Key tag switch in 2 Module
- LED marking for Key card slot as locator in dark
- Sensor based switching mechanism for more operating life and better contact
- 30 s 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: 240 V,
- Frequency: 50 Hz
- Load capacity: 20 A,
- Terminal Capacity: 2.5 mm²

Mechanical:

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

MECHANICAL KEY TAG SWITCH

Features

- 20 A DP switch operated by latch in 2 Module

Technical specifications:

Electrical Specifications:

- Rated Voltage: 240 V,
- Frequency: 50 Hz
- Load capacity: 20 A DP,
- Terminal Capacity: 2.5 mm²

Mechanical:

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



USB Socket for data transmission



HDMI Socket for data transmission



VGA Socket for data transmission



RCA Socket



Shaver socket

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 –1 Module
- Front loading and removal
- IP rating: IP20
- HD15, HDMI and USB data socket are provided with female connector cable for easy installation with cable length of 10 cm
- Triple RCA are supplied with terminal block

Mechanical:

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

SHAVER SOCKET

Features

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

Technical specifications: Electrical Specifications:

- Rated Input Voltage: 240 V,
- Output voltage: 110 V / 230 V
- Output power: 15 V (Maximum) shaver only
- Frequency: 50 Hz,
- Terminal Capacity: 4 mm²

Mechanical:

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

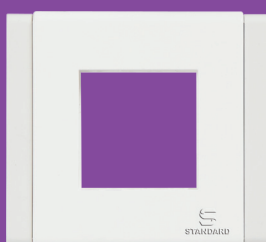
FRONT PLATES

1 Module



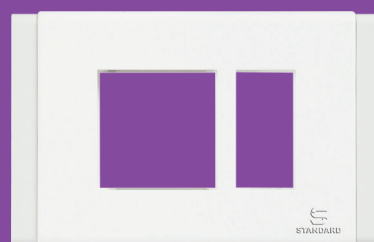
L x W x H: 100 x 6 x 90 mm
CD: 60 mm

2 Module



L x W x H: 100 x 6 x 90 mm
CD: 60 mm

3 Module



L x W x H: 140 x 6 x 90 mm
CD: 90 mm

4 Module



L x W x H: 160 x 6 x 90 mm
CD: 120 mm

6 Module



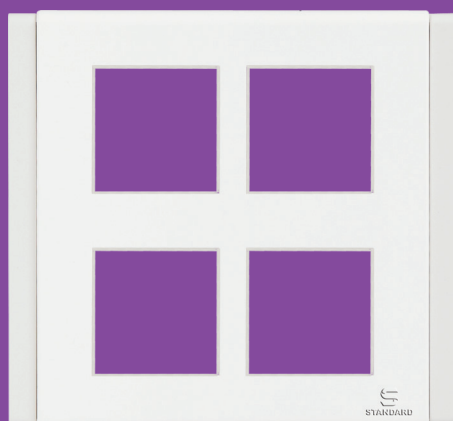
L x W x H: 230 x 6 x 90 mm
CD: 195 mm

8 Module (H)



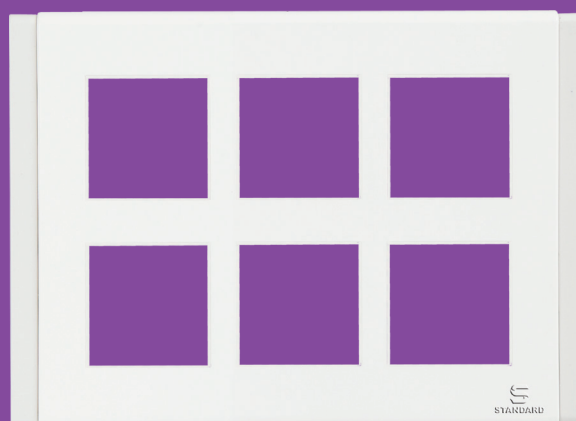
L x W x H: 245.5 x 6.3 x 90 mm
CD: 211 mm

8 Module (V)



L x W x H: 160 x 6.3 x 150 mm
CD: 120X60 mm

12 Module

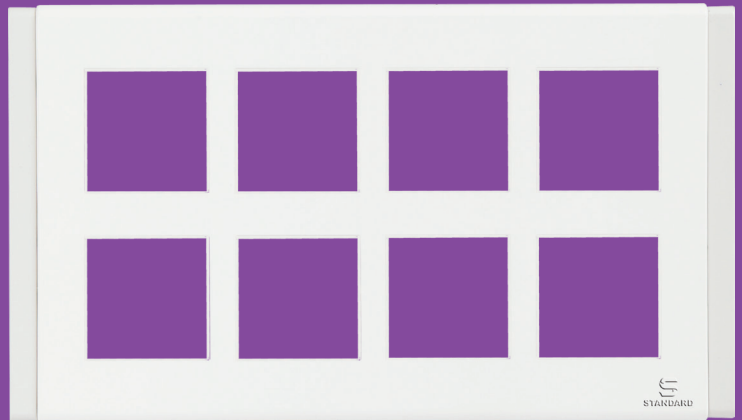


L x W x H: 230 x 6.3 x 150 mm
CD: 194 x 68 mm

8 Module (H)



16 Module (H)



L x W x H: 265.2 x 6.3 x 153 mm
CD: 230 x 68 mm

18 Module (H)



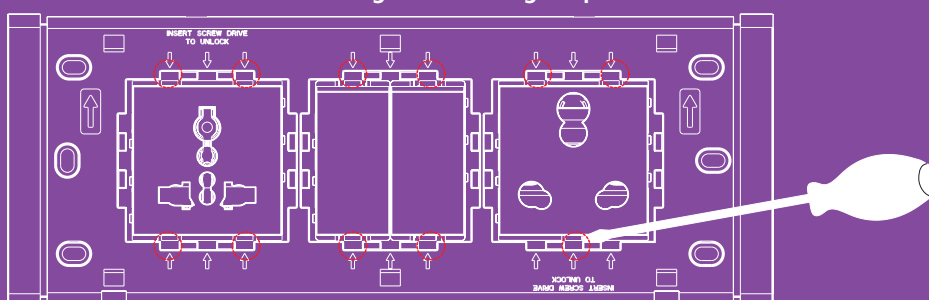
L x W x H: 230 x 6.3 x 224 mm
CD: 195 x 136 mm

FRONT PLATES

Features

- Mix & Match of gloss and matt finish plates
- Unique step profile plate, which show cases both inner and out plates as a concept
- 5 Colour options in inner 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

Front Loading & removeing snaps

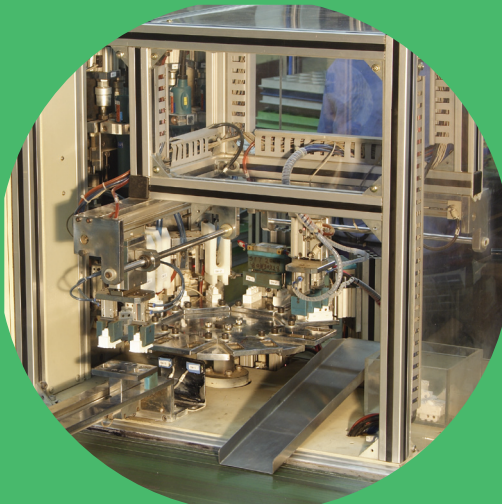


MANUFACTURING PROCESS



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



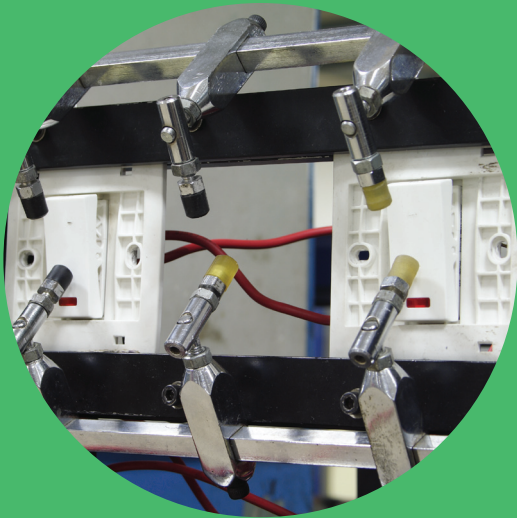
MATERIAL HANDLING SYSTEM

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



CNC MACHINES

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



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



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)

Standard 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 defined *Warranty time period from the date of purchase. The warranty defines the Company's entire liability and does not cover consequential loss or damage, or reinstallation cost arising from defective product. The Company reserves the right to change/improve the design, without prior notice.

S.No	Product	Warranty Period*
1	Mechanical Modules - Switches, all type of sockets & PC White front plates	10 Year
2	Electronic Modules -Fan regulator, Dimmer, Telephone sockets, Computer sockets, USB Chargers, Data Socket (HDMI, VGA, HD15, USB Data) & Indicator switches	1 Year
3	Decorative plates (Glass, Metal and Wood), Painted front plates, PC plates with chrome finish & all modular SKUs with colour painted	2 Year

In aforementioned cases, replacements shall be carried out, with design of the products prevailing at that point in time.

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

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

Actual products may vary in colour, design, description and colour combination etc. Although every effort has been made to ensure accuracy in the compilation of the technical detail within this publication. Specifications & performance data are constantly changing. Current details should therefore be checked with Havells Group.

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