




Finally, intelligent switches
that make a designer difference

About Larsen & Toubro

Larsen & Toubro (L&T) is a technology-driven USD 8.5 billion company that infuses engineering with imagination. The Company offers a wide range of advanced solutions, in the field of Engineering, Construction, Electrical & Automation, Machinery and Information Technology.

L&T Switchgear, which forms part of the Electrical & Automation business, is India's largest manufacturer of low voltage switchgear, with the scale, sophistication and range to meet global benchmarks. With over four decades of experience in this field, the company today enjoys a leadership position in the Indian market with a growing presence in International markets.

It offers a complete range of products including controlgear, powergear, motor starters, energy meters, wires and a host of other accessories. Most of these products conform to international standards, carry CE marking and are KEMA  certified.

Environment & Community

The Company has a comprehensive Quality, Environment and Safety management system. The manufacturing facilities conform to ISO 14001 (Environmental Management System) & OSHAS 18001 by BVQI.

Switchgear Design and Development Center

SDDC is the primary constituent supporting the electrical and electronics division's leadership through its proven excellence in product design.

Distribution

L&T Switchgear is available through a network of more than 700 authorized stockists, one of the largest distribution networks in the industry.

Training & After Sales Service

L&T's Switchgear training centres at Pune, Lucknow and Coonoor have state-of-the-art training facilities with well equipped workshops and testing systems. Over 75,000 participants have benefitted from these programs.

The Company has over 40 branch offices across the country and a network of over 100 service centres to deliver after-sales-service to the customers.

The leader makes a difference

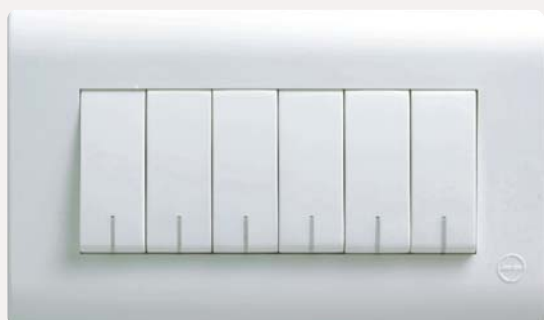
As a Company powered by innovation and imagination, L&T Switchgear consistently makes vital differences to the lives of people across the world. The recent addition to its product repertoire is a range of wiring accessories, **ORIS**®. This range accentuates the uniqueness of L&T designing through its rare ergonomics and aesthetics.



When it comes to making the right choice, nothing even comes close to the colorful shades of ecstasy. Black and White have been the inspiration behind the most vibrant ideas across the world. Our black and white range of switches are a result of colorful innovations (after all, black or white is a blend of all the available basic colors)! Whether it is an enameled wall or a rustic wood finish or even a regular painted surface, Oris switches lend their exuberance just about anywhere.

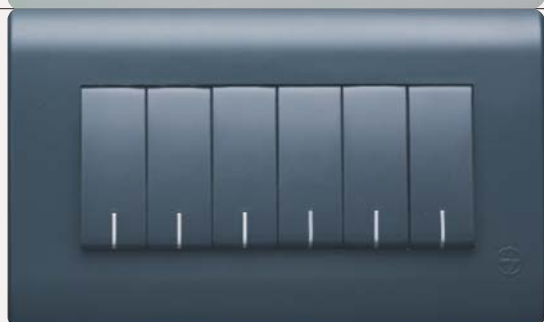
ADDITIVE COLOR MIXING

The mixing of colored light is ADDITIVE. Hence mixing of red, yellow and blue (RYB) will create white color.



Sense the purity of white when you use the thoughtfully carved Oris white. Scientifically selected hue of white pallets in the modules match the shades of white walls.

All Colours Finally Merge In Black Or White



Feel the power of Black when you use the beautifully crafted Oris black. Choose Oris black on any coloured wall, wood or marble and feel the richness it adds to the aesthetics.

SUBTRACTIVE COLOR MIXING :

The mixing of pigments is SUBTRACTIVE. Hence mixing of cyan, magenta and yellow (CMY) will create black color.





Smooth aerodynamic contours...

Designed at the In-House design cell SDDC, Oris has evolved features such as the unilateral continuous array design, which gives a seamless feel to the complete product matrix. This unique design feature also helps in reduction of dust collection over the surface hence enhancing the product life.



High quality virgin engineered plastic and scientifically selected shades of black & white used in Oris, renders a rich glossy finish to the surface. Any forced stains such as grease, paint primer can be easily cleaned with a damp cloth.



The precisely calculated curvilinear feature in Oris creates an aura of sophistication which is an expression of your style.

With **intelli-i**



The smartest feature in Oris is the **intelli-i** in the switch. All switches have this inbuilt eye insert which helps installers to identify the 'ON' position .

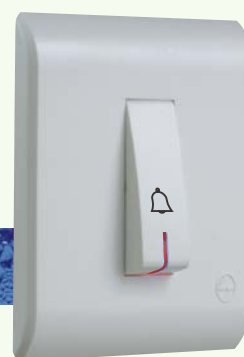
The **intelli-i** doubles up as an indicator using a red SMD LED** to visually highlight and remind the user that the switch is ON. Oris **intelli-i** hence reminds to switch off your geyser and your A/C when not in use.



The night locator switch uses the **intelli-i** smart feature of hi-lighting the switch in the dark using a blue SMD LED. Imagine how easy it would be to locate the right night light switch in the dark with **intelli-i** .



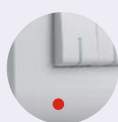
Oris bell push switch has an embedded **intelli-i** Red LED which works as an all time locator. Now welcome your guests with this stunning feature of a brightly lit bell switch.



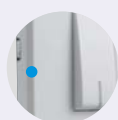
The **intelli-i** is the signature design of the Oris range.

** SMD LED is energy efficient Power consumption < 0.6 W
Life of LED is 2-3 times higher than Neon
LED is mechanically more robust compared to Neon

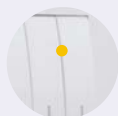
Esyclean Design



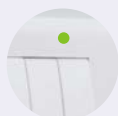
Stylish rounded contours
Minimizes dust collection on surface, easy to clean



Slim sleek design
Minimum protrusion from wall (8.5mm)



Rib less design
No dust collection between the switches



Glossy surface finish
Reduces dust collection

Space saving modules...

With ergonomics and aesthetics becoming the utmost priority for architects, designers and home owners, the need for more and more compact electrical accessories is ever increasing.

Superior design of Oris products ensures sleek looks and compactness which means more modules can now fit in the same amount of space. For instance, 10 modules of Oris can be accommodated in 8 module wall box of other makes. This also means that if you use a 8 module grid from Oris range you would

actually use space equivalent to 6 modules of others.

The ergonomic design of Oris allows accommodating 6A, 10 A, and 16 A capacity switch in one module size. Hence our 16 A switch socket combination fits into a 77mm x 106 mm wall box.

The space saving module not only make Oris look sleeker but also makes it easy to operate.



Product in actual size



Features and beyond ...



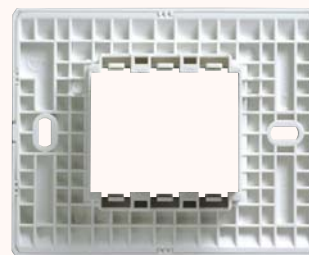
Technology meets aesthetics in the design of electronic, low torque, low consumption, four step, hum free fan regulator and lamp dimmers. Relax in comfort of the cool breeze when you use Oris regulators in your fan control.



Aerodynamic slim but robust face plate (8.5 mm) keeps the protrusion from the wall to the minimum enabling interior designers to have homogenous ergonomics.



Laser marking is done for precise and clear readability of the markings behind the switches. This also helps in ensuring authenticity of the product.



Honey comb grid plate makes it as strong as steel. This prevents warping of the grid plate.

Vertical and horizontal slot arrangement in the grid plate is provided to adjust the position of the screw with respect to the wall box. This helps in aligning correctly the switch plate assembly on the wall improving the aesthetics.



The zero weld concealed metal boxes, introduced for the first time in India, provide excellent rust resistance and robustness. All boxes have one tap knock outs for cable entry and adjustable screw wings.



Hotel Room Accessories

- Do Not Disturb/Make up room indicator and Switch



- Completely modular DND/MUR indicator for hotels with customized icons to suite your needs.
- For applications outside the door, the indicator can be coupled with 1 mod or 2 mod bell switch with indicator. LED is used for indication, which saves energy.



- Completely modular DND/MUR rotary switch for hotels with customized icons to suite your needs.

Energy Saver Key Tag Switch



- Mechanical key tag can directly switch upto 20 amps loads. Key holder is used for activating the switch.
- The key tag comes with a unique LED light which enables guests to locate the switch in the dark.
- The unit comes with its face plate and key tag.



- Electronic key tag uses standard card for activating the switch. A separate contactor has to be used for switching the load as per requirement. This key tag is also used for hotel room automation systems.
- The key tag comes with a unique LED light which enables guests to locate the switch in the dark.
- An in-built delay timer is available in the electronic key tag which allows the guest to leave the room before the light switches OFF.
- Capacity : 230 V AC 30 VA

Hotel Room Accessories



Shaver socket

- Shaver socket in the wash room has in built heavy duty transformer for 115 V and 240 V Shavers.



Volume Controller

- This unique product uses sophisticated electronics to control volume of TV or piped music in the room.



LED Footlight

- The footlight uses high output white LEDs which have a life of over 50,000 Hrs & it consumes only 6 W.
- It also has a unique fresnel lens for protection from dust and glare.

















Buzzer

- The sweet sound of this aesthetically designed buzzer will definitely please the guests. Designed for high performance and low visibility.










Make Your Own Combo

1 Module








| Switch | | | | | | Indicator | |
|---|---|---|---|---|---|---|---|
| 1 Way | 2 Way | 1 Way with Indicator | Night Locator | Bell | Bell with Indicator | DND/MUR Indicator | LED Indicator |
|  |  |  |  |  |  |  |  |
| OS11W06 OS11W10 OS11W16 OS11W20 | OS12W06 OS12W10 OS12W16 OS12W20 | OS13W06 OS13W10 OS13W16 OS13W20 | OS14W06 OS14W10 | OB11W06 | OB13W06 | OH11W00 | OAI1W00 |

| Socket | | Data | | | |
|---|---|---|---|---|---|
| 2 Pin | RJ 11 | Twin RJ 11 | TV | RJ 45 | Blank Plate |
|  |  |  |  |  |  |
| OC11W06 | OT11W11 | OT12W11 | OT11W00 | OT11W45 | OAI0W00 |

2 Module

| Switch | | | | | | Regulator | Dimmer | DND/MUR Selector |
|--|--|--|--|--|---|--|--|--|
| 1 Way | 2 Way | 1 Way with Indicator | 1 Way DP | Bell with Indicator | Buzzer | Fan Regulator | 400 W Dimmer | |
|  |  |  |  |  |  |  |  |  |
| OS21W10 OS21W16 OS21W20 | OS22W10 OS22W16 OS22W20 | OS23W10 OS23W16 OS23W20 | OS24W20 OS24W32 | OB23W10 | OA21W00 | OR21W01 | OD21W04 | OH21W00 |

3 Module

| Socket | | | | Data | Dimmer | | |
|---|---|---|---|---|--|---|---|
| Uni Socket 6A | 2/3 Pin 6 A | 3 Pin 16 A | 3 Pin 6/16 A | I3A Universal | TV + FM | 650W/1000W Dimmer | Volume Controller |
|  |  |  |  |  |  |  |  |
| OC31W06 | OC32W06 | OC31W16 | OC32W66 | OC32W13 | OT32W00 | OD31W06 OD31W10 | OH31W00 |

4 Module

| Key Tag | |
|---|---|
| Electronic key tag | Mechanical key tag |
|  |  |
| OH41W00 | OH42W20 |

6 Module

| Socket | Light |
|---|---|
| Shaver Socket | Foot light |
|  |  |
| OH61W00 | OL61W06 |

1 Module



OF11W00



OW21M00
77 mm X 77 mm



OW21W00

2 Module



OF21W00



OW21M00
77 mm X 77 mm

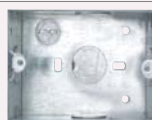


OW21W00

3 Module



OF31W00



OW41M00
77 mm X 106 mm



OW41W00

4 Module



OF41W00

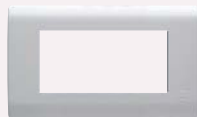


OW41M00
77 mm X 106 mm

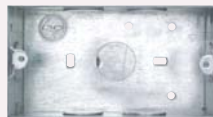


OW41W00

6 Module



OF61W00

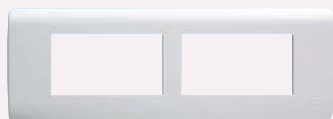


OW61M00
77 mm X 138 mm



OW61W00

8 Module



OF81W00

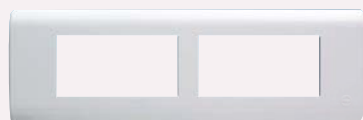


OW81M00
77 mm X 211 mm



OW81W00

10 Module



OF10W02



OW10M00
77 mm X 228 mm



OW10W00

12 Module



OF12W00



OW12M00
138 mm X 137 mm



OW12W00

16 Module



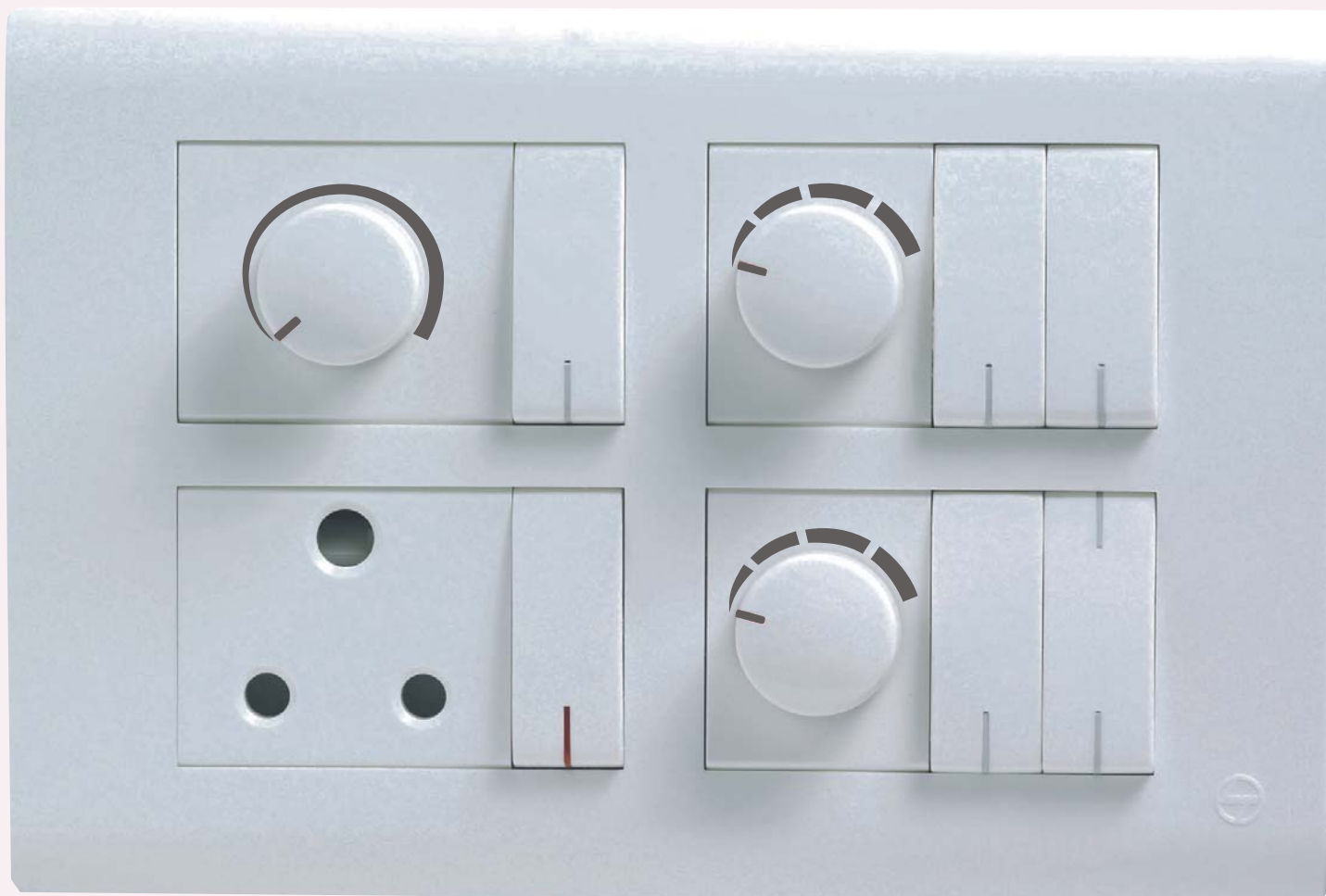
OF16W00



OW16M00
138 mm X 211 mm



OW16W00



| Product Nomenclature | | | | | |
|----------------------|----------------|------------|-------------|-----------|-------------|
| Product Name | Category | Module | Variants | Colour | Capacity |
| O-Oris | S - Switch | I - I8 | I - 9 | W - White | 06/10/13 A |
| | C - Socket | 0 - Others | 0 - Special | M - Metal | 16/20/32 A |
| | T - Tel & Data | | | B - Black | 66 - 6/16 A |
| | B - Bell Push | | | | 11 - RJ 11 |
| | D - Dimmer | | | | 45 - RJ 45 |
| | A - Accessory | | | | 01 - 100 W |
| | R - Regulator | | | | 04 - 400 W |
| | W - Wall Box | | | | 06 - 650 W |
| | F - Face Plate | | | | 10 - 1000 W |
| | P - Plug Top | | | | |
| | L - Foot Light | | | | |
| | | | | | |



All switches and sockets are ISI marked

Switches and sockets tested as per latest IS standards

Fire retardant engineered plastic eliminates propagation of fire

Spark shield in switches protects users from shocks

Switches make positive contact with no bounce

Sockets have child safety shutters

Registered Office & Head Office: Mumbai Tel : 022-67525656 Fax: 022-67525858

Electrical Standard Products (ESP) Branch Offices

Ahmedabad

Tel: 079-66304007-11
Fax: 079-26580491 / 66304025
e-mail: esp-ahm@LNTEBG.com

Bangalore

Tel: 080-25020100, 25593613
Fax: 080-25580525
e-mail: esp-blr@LNTEBG.com

Bhopal

Tel: 0755-4098706 / 7 / 8 / 9
Fax: 0755-2769264
e-mail: esp-bho@LNTEBG.com

Bhubaneswar

Tel: 0674-6451342, 2436696
Fax: 0674-2537309
e-mail: esp-bbi@LNTEBG.com

Chandigarh

Tel: 0172-4646841 to 7
Fax: 0172-4646802
e-mail: esp-chd@LNTEBG.com

Chennai

Tel: 044-28462072 / 4 / 5 / 2109
Fax: 044-28462102 / 3
e-mail: esp-maa@LNTEBG.com

Coimbatore

Tel: 0422-2588120 / 1 / 5
Fax: 0422-2588148
e-mail: esp-cbe@LNTEBG.com

Durg

Tel: 0788-2213833 / 14 / 28 / 29
Fax: 0788-2213820

Durgapur

Tel: 0343-2536891 / 8952 / 7844
Fax: 0343-2536493
e-mail: esp-dgp@LNTEBG.com

Guwahati

Tel: 0361-2651297
Fax: 0361-2551308
e-mail: esp-gau@LNTEBG.com

Hyderabad

Tel: 040-66720250
Fax: 040-23296468
e-mail: esp-hyd@LNTEBG.com

Jaipur

Tel: 0141-2385916 / 18
Fax: 0141-2373280
e-mail: esp-jai@LNTEBG.com

Jamshedpur

Tel: 0657-2340864 / 387
Fax: 0657-2341250
e-mail: esp-jam@LNTEBG.com

Kochi

Tel: 0484-4409420 / 4 / 5 / 7
Fax: 0484-4409426
e-mail: esp-cok@LNTEBG.com

Kolkata

Tel: 033-44002572 / 3 / 4
Fax: 033-22822589
e-mail: esp-ccu@LNTEBG.com

Lucknow

Tel: 0522-2312904 / 5 / 6
Fax: 0522-2311671
e-mail: esp-Lko@LNTEBG.com

Madurai

Tel: 0452-2537404, 2521068
Fax: 0452-2537552
e-mail: esp-mdu@LNTEBG.com

Mumbai

Tel: 022-67052874 / 2737 / 1156
Fax: 022-67051112
e-mail: esp-bom@LNTEBG.com

Nagpur

Tel: 0712-2260012 / 13
Fax: 0712-2260020 / 30
e-mail: esp-nag@LNTEBG.com

New Delhi

Tel: 011-41419514 / 15 / 16
Fax: 011-41419600
e-mail: esp-del@LNTEBG.com

Pune

Tel: 020-26135048
Fax: 020-26124910, 26135048
e-mail: esp-pnq@LNTEBG.com

Surat

Tel: 0261-2473726
Fax: 0261-2477078
e-mail: esp-sur@LNTEBG.com

Vadodara

Tel: 0265-2311744, 6613610 / 11 / 12
Fax: 0265-2336184
e-mail: esp-bar@LNTEBG.com

Visakhapatnam

Tel: 0891-6620411-3
Fax: 0891-6620416
e-mail: esp-viz@LNTEBG.com

Product improvement is a continuous process. For the latest information and special applications, please contact any of L&T's offices listed.

L&T SWITCHGEAR

SAFE & SURE

Electrical Standard Products
Larsen & Toubro Limited
Powai Campus, Mumbai 400 072
Customer Interaction Center (CIC)
BSNL / MTNL (toll free) : 1800 233 5858
Reliance (toll free) : 1800 200 5858
Tel : 022 6774 5858
Fax : 022 6774 5859
E-mail : cic@LNTEBG.com
Website : www.LNTEBG.com

SP 50498 R1

Authorised Channel Partner



LARSEN & TOUBRO
It's all about Imagineering