



Smart Warehouse

Lighting & Automation



GreatWhite[®]
Electricals



- ◆ RENOVATION
- ◆ UPGRADE
- ◆ DIGITALIZATION

AUTO SWITCHING – LIGHTS



Handsfree automated switching of lights by using standalone PIR / HF Sensors. One Sensor can connect up to 600W LED Lights for occupancy based ON-OFF. 6/8/12/20/24/32/40 meter detection range models available (360°). Detection control mask provision.

HVAC / FAN AUTOMATION



Automated ON-OFF Switching of Light + A/C or Fan by using 2 Channel **PLUS Sensor**. One Channel for Lights up to 600W and the other channel for HVAC or Fan up to 2300W load. Option of push button and or remote control for manual override. 8/24/32 meter detection

LIGHT + EXHAUST FAN CONTROL



Sensors specially designed for Washroom Applications. High capacity relay to control both Lights & Exhaust fan together. Connect Load up to 1000W. Options of 8Mtr / 16mtr Available.

HIGHBAY SENSOR AUTOMATION



1-10V Analogue dimming standalone sensors for High bay / High mounted Light control. Occupancy based Switching, Daylight Harvesting, Auto Dimming & Orientation Lighting. One Sensor to control up to 400W High bay Load. Mounting height up to 15 Mtr. Up to 24 Mtr detection

DAYLIGHT HARVESTING-DALI



Daylight harvesting & dimming for office lighting by DALI broadcast sensors. One sensor can connect up to 25 DALI fixtures. Occupancy based switching, daylight based dimming, orientation light etc. are some of the features. Push button and remote options for manual override. 6/8 meter options.

MEETING ROOM AUTOMATION



All in one DALI-DUO sensor for meeting room Automation. This standalone sensor can connect up to 50 DALI devices. Any non DALI device like A/C, projector etc. can also be connected by using suitable DALI relays as accessory. Scene control by remote / push button.

DEFENSOR SAFETY & CONTROL



Standalone sensor for area lighting control. Dusk to Dawn light switching, Timer based switching, Motion sensor and safety from vandalism, all in one sensor. First of its kind. Award winning innovation from ESYLUX, Germany.

LIGHTING SCENE CONTROL



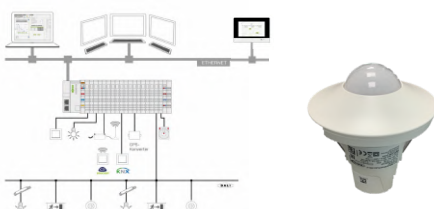
DALI Lighting Controllers for Dimming, CCT Tuning and scene controls. Best for creating different intensity and CCT of Lights for Office area, VC Rooms, Conference Rooms etc. Connect up to 50 DALI Devices / DALI Lights per Controller

DUSK TO DAWN SWITCHING



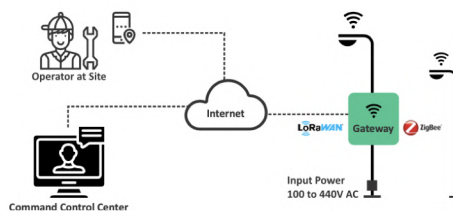
Fixture inbuilt or panel inbuilt Twilight switches for Dusk to Dawn automated switching of Outdoor Lights. Wall mounted Twilight switches for area lighting (with or without timer option).

LMS & BMS



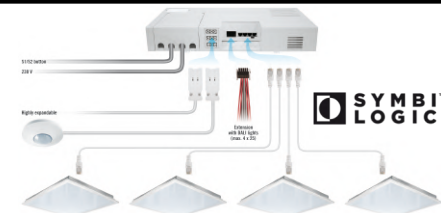
DALI-2 Lighting management Systems & Building Management systems for Indoor Lighting control. For Open Offices, Conference Rooms & Entire warehouse. Dash board / app control.

CCMS – OUTDOOR



Wireless CCMS (Centralized Control & Monitoring Systems) for outdoor and area lights . IOT based Controllers, Gateway, & Software for wireless CCMS. Remote Control, Monitoring & Scheduling

HUMAN CENTRIC LIGHTING



POE + DALI Controller & Tunable Luminaires with Patented German technology for Human centric Lighting. Biological effective lighting & Emotional effective lighting together. For Board rooms / Conference Room

DAYLIGHT HARVEST HIGHBAY



A specially designed Auto Dimming High bay for warehouse applications. Modular design with Optics, High Power LED. Inbuilt Dimming Sensor for Occupancy Based ON-OFF and Daylight based Auto Dimming. 1-10V Dimmable Control Gear Inbuilt.

" FUTURE READY " HIGHBAY



1-10V Dimmable High bay suitable for future automation as well as standalone Dimming Sensor control. Modular Design with Optics. High power LED. 1-10V Dimmable Control Gear Inbuilt. Available in various wattages.

LINEAR HIGHBAY



Linear Modular High bay with optics, Specially designed for heightened isles. More coverage & better illumination. Aluminum extrusion body for best thermal management. Available in 50/80/100/150/200W variants.

TILT MODULAR HIGHBAY



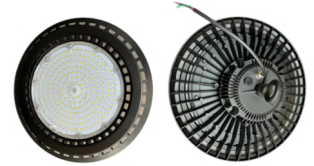
Modular High bay (2 Modules) with adjustable arms. Designed for shaded area coverage. Adjustable arms helps for better illumination for intended applications. Optics designed for uniform light distribution. Available in 80W/100W

FIX MODULAR HIGHBAY



Modular High bay with multiple modules of 50W / 60W / 75W each. Optics designed for uniform light distribution. Available in 50W – 1000W range. High efficacy LED.

UFO ROUND HIGHBAY



Round UFO High bay with 60 degree / 90 degree optics . High efficacy LED with special optics. Uniform light distribution. Available in 80/100/120/150/180W.

INDUSTRIAL BATTEN



Industrial grade Linear fixture suitable for 24 Hrs. warehouse application. Isolated encapsulated LED Driver. Low UGR Diffuser. Available in 28/30/36W. Both Dimmable & Non Dimmable options. Compatible for Sensor Control.

ECO BATTEN



Economical range LED batten suitable for low height isles. Available in 2' & 4' length. 10W/18W/20W/36W options available.

OUT DOOR LIGHTS



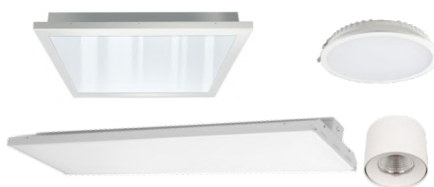
Variety of Street lights for area lighting purpose. COB Street Lights & SMD Street Lights in various shapes. Different type of optics available for various area coverage.

FLOOD LIGHTS



Flood Lights specially designed for Loading / Unloading area for higher illumination. Option of wide beam angle / narrow beam angle. With or without optics available. Both professional model and economic model available.

OFFICE LIGHTING



Wide range of Office lighting fixtures with Low UGR. 2x1, 4x1, Linear, Down lights, Surface mounting / Recess mounting Fixtures for all application. With or without Sensors. Dimmable / Non Dimmable Options

FIRE ESCAPE LIGHTING



Say "NO" to Inverters and DG set for emergency lighting. Specially designed Fire escape lighting fixtures with inbuilt battery. Maintained or non maintained Fire escape lights. Recess / Surface mounted models available. Customized models also available.



RENOVATION



UPGRADE



DIGITALIZATION

HEIGHTED ISLES AREA



Lighting: Switch to High efficacy LED Lights (Preferably Linear Modular).

Upgrade: (1) Use High bay Sensors for Occupancy based switching, Orientation Dimming & Daylight Harvesting OR (2) Use Daylight harvesting High bays with Inbuilt Sensor.



LOW HEIGHT ISLES



Lighting: Replace Domestic grade LED batten to Industrial grade linear LED Lights in case of 24 Hrs. Operation.

Upgrade: (1) Use Core Sensor (with detection control mask) / Surface PIR / HF Sensor for Automatic ON-OFF of lights based on movements at the isles.



HEIGHTED OPEN AREA



Lighting: Switch to High efficacy LED Lights (Modular or UFO).

Upgrade: (1) Use High bay Sensors for Occupancy based switching, Orientation Dimming & Daylight Harvesting OR (2) Use Daylight harvesting High bays with Inbuilt Sensor.



LOADING AREA



Lighting: Switch to High efficacy LED Flood Lights.

Upgrade: Use All in one "Defensor" (Dusk to Dawn Switching, Timer, Motion Sensor) OR Use HF Sensor for Occupancy based Switching, Orientation & Daylight harvesting.



OUTDOOR AREAS



Lighting: Switch to High efficacy LED Street Lights.

Upgrade: Use Dusk to Dawn Sensors (With or without timer) for Day Night Auto Switching.



OPEN OFFICES



Lighting: Switch to high efficacy LED lights with low UGR (Unified Glare Ratio), and Zero flicker drivers, for better performance.

Upgrade: (1) Use ON-OFF Sensor for Occupancy based switching (2) Use DALI Dimmable Sensors for Daylight Harvesting (In case of glass façade / window)



EXECUTIVE CABINS



Lighting: Switch to High efficacy LED Luminaires with low UGR

Upgrade: (1) PLUS Sensor for Lights + A/C (2) DALI Dimming Sensors for daylight harvesting & Dimming (3) Human Centric Lighting for productivity.



CONFERENCE ROOMS

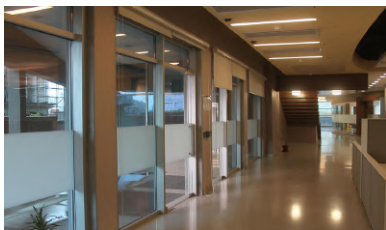


Lighting: Switch to High efficacy LED Lights

Upgrade: (1) DALI-DUO Sensor for Device management (2) DALI Touch panels for presentation scenes (3) Human Centric Lighting for Video Conferences.



PASSAGES, STAIRCASES & LOBBIES



Lighting: Switch to High efficacy LED Lights

Upgrade: (1) ON-OFF Sensor for Occupancy Switching (2) DALI Dimmable Sensor for Orientation Lighting (3) Dimming Driver Cum Sensor for orientation



WASH ROOMS



Lighting: Switch to High efficacy LED Luminaires

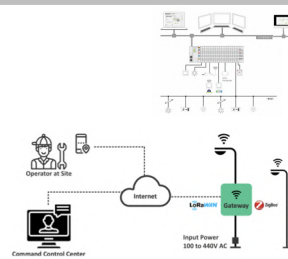
Upgrade: (1) Use HF Sensors for Occupancy based ON-OFF (2) Use Sensor for Light + Exhaust fan (1 Channel or 2 Channel)



ENTIRE WAREHOUSE - DIGITALIZATION



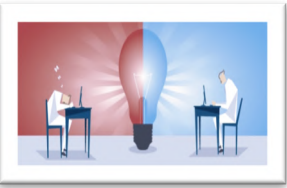
Digitalization: (1) Use DALI-2 BMS and get all the electrical switching points of the warehouse to a single dash board. Schedule, Control, Monitor and operate from anywhere. Get the benefits of Data analytics & Fault alerts. (2) Use Wireless Lighting management Systems for Outdoor Lights.





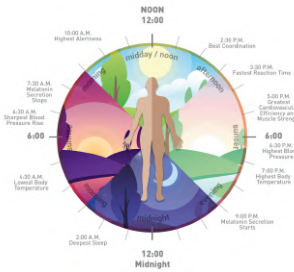
COST SAVING

- ✓ Conventional Lights to LED – 55% energy saving
- ✓ Change over to High efficacy LED – 30% energy saving
- ✓ Occupancy based ON-OFF (Sensors) – 35% energy saving
- ✓ Daylight Harvesting (Auto Dimming) – 20-25% energy saving
- ✓ Savings from Auto Switching of A/Cs & Fan – 30-35%



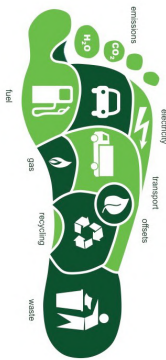
BETTER PRODUCTIVITY

- ✓ Enhanced Productivity by Illumination Management
- ✓ Meeting Room scenarios for effective presentations



HEALTH & SAFETY

- ✓ Many Intangible benefits from Human Centric Lighting
- ✓ Better Sleep, Reduced errors, enhanced creativity
- ✓ UVC Germicidal Irradiation help healthy work space
- ✓ Fire escape lighting for emergency evacuation



SUSTAINABILITY

Carbon Foot Print Statistics:

- 0.95kg Carbon emission / 1KWhr electricity
- 1 Tree required for 160kg carbon neutral
- High efficacy LEDs, Demand Driven Switching & Daylight Harvesting save huge amount of energy, thus reduce carbon emission drastically !



INDUSTRY 4.0 BENEFITS

- ✓ Remote Control & Monitoring from LMS & BMS
- ✓ Data analytics & Control
- ✓ Dash board control
- ✓ Fault alerts
- ✓ All electrical devices on single dash board control



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**ONE STOP SOURCE FOR
INTELLIGENT LIGHTING & AUTOMATION**