



Theorylight

Tri-proof Light (TP-VD)

Up to 160lm/W | 40W



ZigBee Mesh
Network Control



Motion Sensor



Zoning & Grouping



Theorylight
Remote Control



Daylight Sensor



On/Off Control

CE

RoHS

APPLICATIONS

- Parking Area
- Stairway
- Manufacture
- Warehouse
- Exhibition Hall

FEATURES

- Daylight and Motion sensors embedded
- ZigBee mesh network smart controls Easy Grouping without Gateway via Theorylight Remote Control.
- Automatic ON/OFF or Dimming
- Functions with smart sensing (Daylight, Motion) for maximum energy saving
- Color Temperature options with 4000K, 5000K or 6500K, default available in 5000K
- Power Field available with power between 30W, 35W and 40W, default available in 40W.
- Efficiency up to 160 lm/W
- 50% less power consumption than traditional light sources.
- Lowest maintain cost



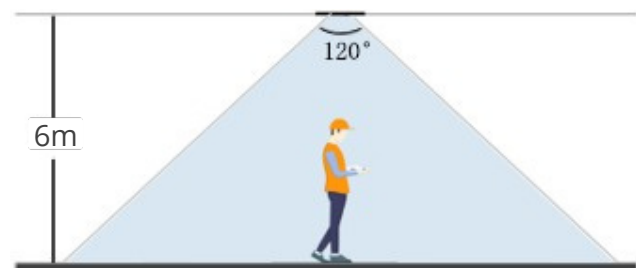
SMART MODULES

-  ZigBeeModule
-  Microwave Motion Sensor Module
-  Infrared Daylight Sensor Module

Sensor Parameters

Sensing Angle	120°
Sensing Distance	6 m
Light Sensing Range	0~2000 Lux (Infrared Daylight)
Remote Control Distance	10 m

Sensing Angle



PRODUCT DATA

General Information

LED Type	Lumileds
Light efficiency	130lm/W / 160lm/W
CCT	4000K / 5000K / 6500K
CRI	80
LED Lifespan	> 50000h
Power Supply	HOMA
Type of Driver	Isolated
Driver efficiency	87%
Warranty	5 Years Warranty
Certificate	CE, RoHS

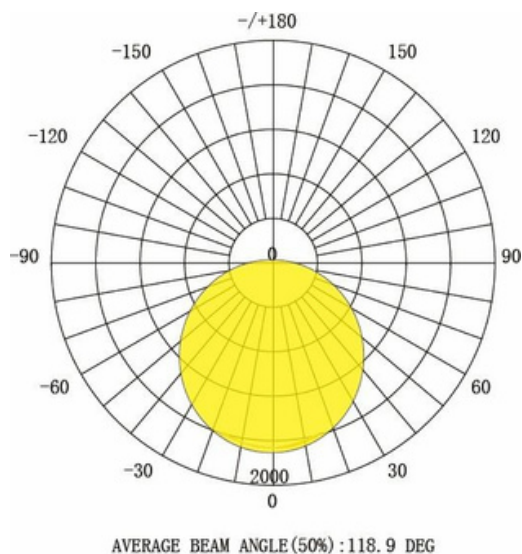
Application Conditions

Operating Temperature	-20°C to +45°C
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Approval and Application

Ingress protection code IP	IP65
Surge protection	4KV
Mech. impact protection code	IK10

Light Distribution Curve



Operating and Electrical

Input voltage	200~240 Vac
Input Frequency	50/60Hz
Inrush current	<20A
Power Factor	>0.95
THD	<10 %
Standby Power	<1W

Mechanical and Housing

Structure Material	Aluminum + Stainless Steel
Finish Material	PC PC White Ceiling Mount
Lens Material	
Fixture Color	
Mounting Option	

Controls and Dimming

Dimmable	Dimmable
Intelligent Control	ZigBee / Dimming / Infrared Daylight / Microwave Sensor

Draw ing

LAMP S



Length (mm)	Width (mm)	Height (mm)
1200	85	56

PRODUCT PARAMETER

Model Number	Power Consumption (±10%)	Ra	Input voltage	Light Efficiency	LuminousFlux (lm) (±10%) @4000K @5000K @6500K	Beam Angle	Correlated Color Temperature	LED Type	Driver Type
TL12-TP-VD- L120-XXX①-40W- E130-A120-XX②- EU -MID-OTA-3.0	40W	80	200~240Vac	130lm/W	5200 lm	120deg	4000K 5000K 6500K	Lumileds	Isolated
TL12-TP-VD- L120-XXX①-40W- E160-A120-XX②- EU -MID-OTA-3.0	40W	80	200~240Vac	160lm/W	6400 lm	120deg	4000K 5000K 6500K	Lumileds	Isolated

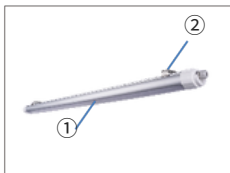
PACKAGE

Item.	Luminaire Net Weight	Packing Info	Dimension (inner box) (mm)	Dimension (outercarton) (mm)	GW (Outer carton)	20ft GP	40ft GP	40HQ
TL12-TP-VD- L120-XXX①-40W-E130-A120-XX②- EU -MID-OTA-3.0	1.9kg	9pcs/ctn	1290*90*65	1310*290*220	20.7kg	3015pcs	5815pcs	7323pcs
TL12-TP-VD- L120-XXX①-40W-E160-A120-XX②- EU -MID-OTA-3.0	1.9kg	9pcs/ctn	1290*90*65	1310*290*220	20.7kg	3015pcs	5815pcs	7323pcs

Remark :

- XXX①designates different Correlated Color Temperature, 40K = 4000K, 50K= 5000K, 65K = 6500K.
- XX②designates different Power Resource Terminals, DT= Dual Power Terminals, MT=Mono Terminal.
- For the US version, the input voltage is 100~277Vac.

STANDARD KIT



Serial Number	Description	Quantity
①	LED Tri-pool Light	1
②	Stainless steel Buckle	1

ACCESSORIES



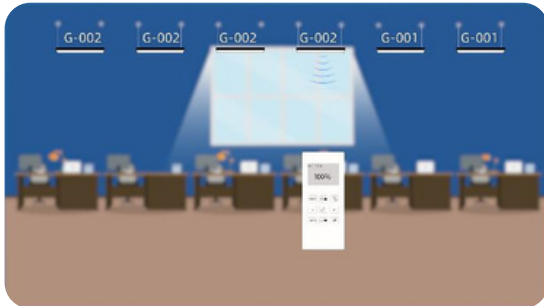
Steering Rope



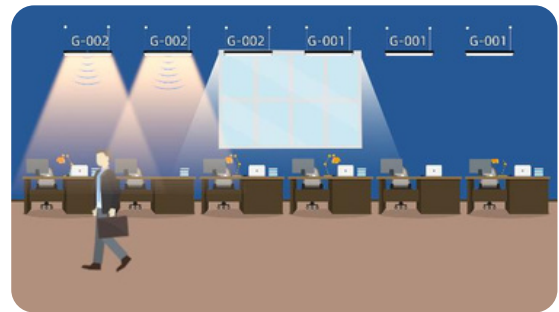
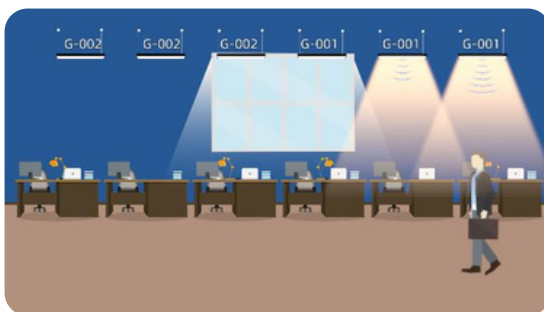
3/4NPT Converter

Note: the accessories to be ordered separately.

TYPICAL WORKING SCENARIOS



The “Theorylight” smart lamps are embedded with motion sensor and daylight sensor, using a “Theorylight” remote control, users can set grouping and parameters very fast and convenient. By adopting the standard ZigBee technology, “Theorylight” has the inborn advantages like long transmission distance, multiple channels and mesh network.



Users can set the sensor parameters of one group or individual lamp with one button, and change lamp brightness. In one group, the motion sensors work together to control these grouped lamps, and the daylight sensors control the individual lampson/off accordingto the ambient brightness.

The Theorylight serial include panel, linear light, tri-proof light, high bay, LED tube. This kind of smart lamps can be used for industrial and commercial area, example offices,warehouses,factories,parking and others.