

Surface & Suspended



IP66 Ingress Protection



IK10 Impact Resistance

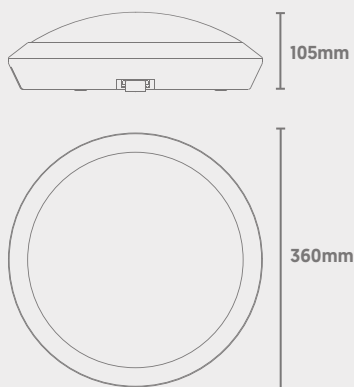


TP(a) Fire Rating



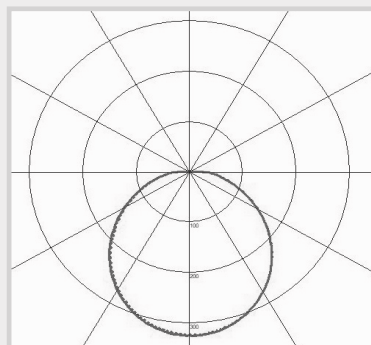
Side Conduit Entry Point

Dimensions



**Light Source
Energy Rating**

Photometric Data



Vex

Commercial Bulkhead

CODE: VEX-25-420NW/MS

QVIS[®]
LED LIGHTING



Microwave Sensor
Info on Following Pages



Power	Efficacy	Output	Kelvin
25W	108Lm/cW	2700Lm	4000K

Technical

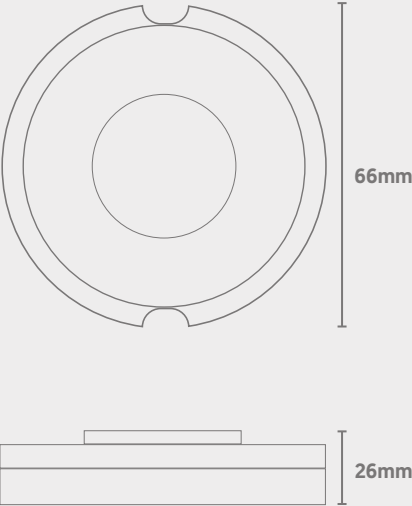
Input Voltage	AC 220-240V
Colour Rendering Index	>80
Power Factor	>0.9
Operating Temp.	-20 to +40°C
Materials	Polycarbonate
IP Rating	IP66
IK Rating	IK10
Fire Rating	TP(a)
Dimmable	Microwave Sensor
Dimensions	420mm x 112mm
Weight	1.6kg
MacAdam Step	<3
Lifetime	50,000 hours, L90-B10 (Ta 25 °C)
CE Standards	EN60598-1, EN62493, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62722-1, EN62722-2-1 and EN50581
CE Directives	LVD, EMC, ERP & RoHS

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Vex
Microwave Sensor



Dimensions



Technical

Input	Voltage Range	AC 198-264V; 50Hz /60Hz
	DC Input Range	AC 220-240V; 50Hz/60Hz ≤0.12 [@ AC 230V Full Load]
	Input Current	≤0.17A @ AC 230V
	Inrush Current	<15A [100us Half-Current] @ AC 230V
	Power Factor	≥0.90 [230V Max. Load]
	Stand-By Power	<0.1W @ AC 230V
	Working Efficiency	≥86%, AC 230V / Max. Load
Output	Working Model	CC
	Type of Load	LED
	Full Load Power	25W Max.
	Flicker Ripple	≤5%
	No-Load Output Voltage	DC 60V Max.
	Load Current	Single Current : 450mA/500mA/550mA/700mA
	Load Output Voltage Range	DC 24-42V; 450mA/500mA/550mA; DC 24-36V; 700mA
Parameters	Constant Current Accuracy	±5% @ AC 230V
	Operating Frequency	5.8GHz ±75MHz; ISM band
	Transmitting Power	1mW
	Detection Area	25% / 50% / 75% / 100%
	Hold Time	5s / 1min / 5min / 10min
	Stand-By Period	0s / 1min / 10min / +∞
	Daylight Control	5Lx / 25Lx / 50Lx / Disabled
	Daylight Priority	Open: 5Lx / 25Lx/ 50Lx; Closed: 50Lx / 200Lx / 150Lx

Vex Microwave Sensor

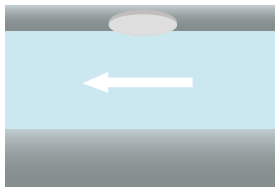
Dimensions

Technical

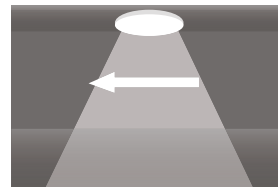
Parameters	Stand-By Dim Level	20%
	Detection Radius (100% Sensitivity)	Ceiling Mounting: 3m: 0.3m/s ≥4m, 1m/S ≥2.5m Wall Mounting 2m: 0.3m/s ≥10m, 1m/S ≥5m
	Mounting Height	Typically 3m (Up to 6m)
	3dB Field Angle	90°@Xz Flat; 95°@Yz Flat
Abnormality Protection Requirements	Input-over-Voltage Protection	Self-Recovery
	Input No-Load Protection	Self-Recovery
	Short-Circuit Protection	Self-Recovery
	Withstand Voltage	AC 3750V; 5mA 60S (Input "L N" to Output SEC+ SEC-)
	Operating Temperature	-25 to +45°C
	Maximum Temperature	+85°C
	Storage Temperature & Humidity	-25 to +45°C/ 85% Humidity
Certification Standards	Safety Standards (LVD)	EN61347-1, EN61347-2-13
	EMC Standards	EN55015, EN61547, EN61000-3-2, EN61000-3-3
	Environmental Requirements	Compliant to RoHS
	Certification	CE, RED, FCC
	Protection Class	Class II
	IP Rating	IP20
Others	Wiring Method	EN55015, EN61000-3-2, EN61000-3-3, EN61547 AS/NZS CISPR 15, AS/NZS 4268 FCC Part 15C, Part 15B EN 60950-1, EN301489-1, EN 201489-3, EN300440
	Environmental Requirements	Compliant to RoHS
	Certification	cULus, CE, SAA, FCC, RED
Others	Wiring Method	Press Terminal, Wire Diameter; 0.5 to 0.75mm ²
	Installation	Built-In

Vex^{Gen 2} Microwave Sensor

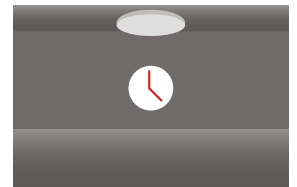
On/Off Function (Stand-By Period is 0s)



1) If ambient light is at a sufficient level, the light will remain off even if motion is detected.

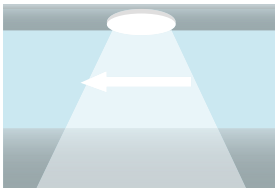


2) If ambient light is not sufficient, the light will switch on when motion is detected by the sensor.

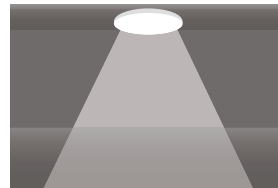


3) After hold-time elapses, the sensor will switch off the light if no motion is detected.

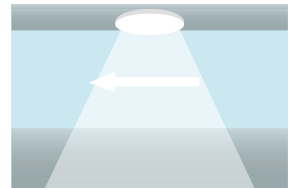
Daylight Priority (Stand-By Period Set To '+∞')



1) If ambient light is brighter than the current set illumination level, the light will remain off.

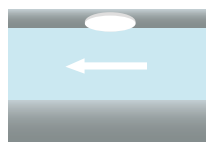


2) The sensor switches the light on when ambient light goes below the sufficient level.

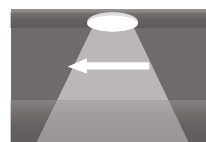


3) If ambient light returns to a sufficient level, the light will remain off even if motion is detected.

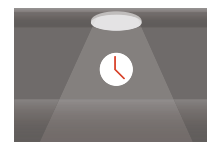
Corridor Function



1) If ambient light is at a sufficient level, the light will remain off even if motion is detected.



2) If ambient light is not sufficient, the light will switch on when motion is detected by the sensor.



3) After hold-time elapses, the sensor will switch back to the preset low light level if no motion is detected.

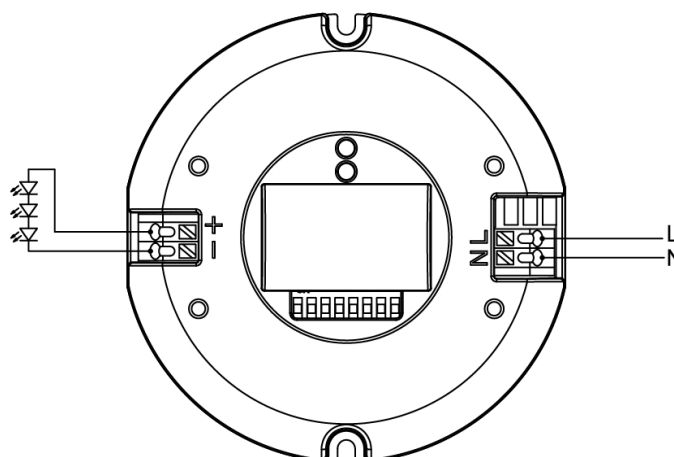


4) After stand-by period elapses, the sensor will switch the light off if no motion is detected.

Vex^{Gen 2}

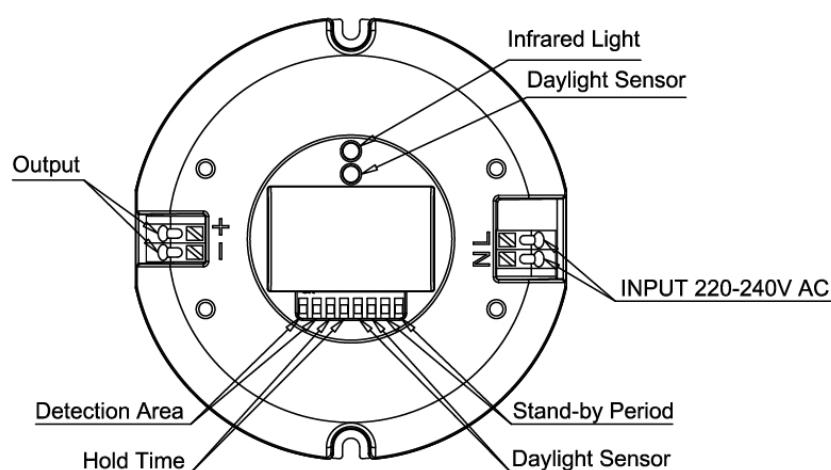
Microwave Sensor

Wiring Diagram*



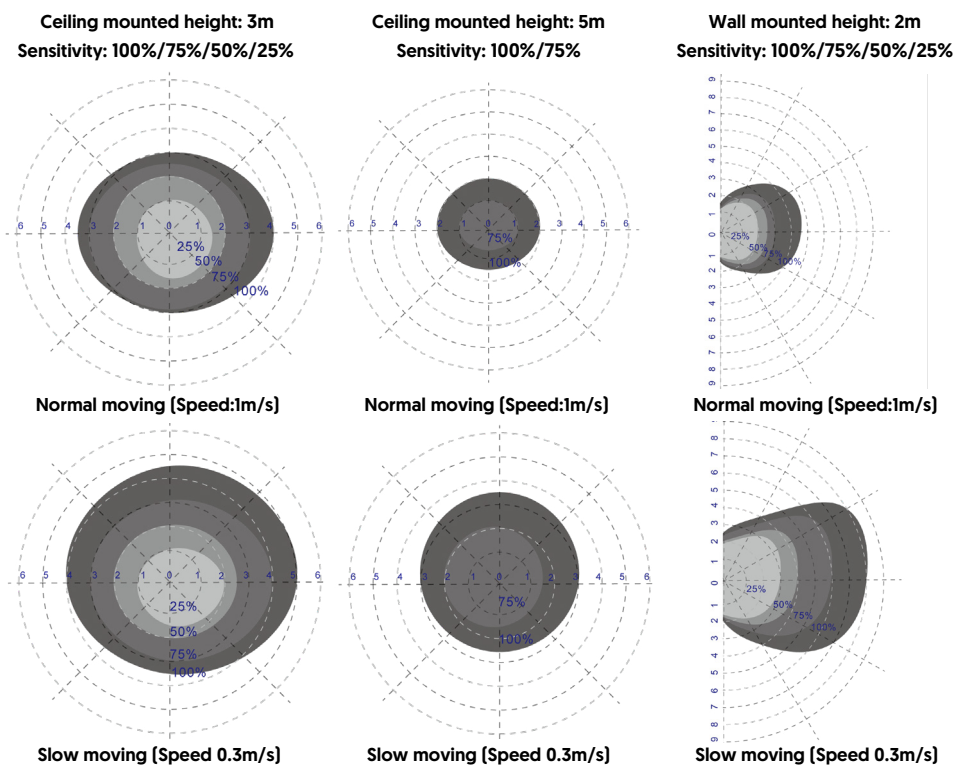
WARNING: The product can only be connected to one load. Connecting more than one load will risk damaging the product. Qvis cannot be held liable for any damage caused by improper installation.

Function



Vex *Gen 2*
Microwave Sensor

Radiation Patterns



Sensor Dip Switch Settings

1) Detection Area

	1	2	
I	ON	ON	100%
II	ON	-	75%
III	-	ON	50%
IV	-	-	25%

Vex Gen 2

Microwave Sensor

Sensor Dip Switch Settings (cont.)

2) Hold Time

	3	4	
I	ON	ON	5s
II	-	ON	1min
III	ON	-	5min
IV	-	-	10min

3) Daylight Sensor

	5	6	Threshold	Open/Close
I	ON	ON	5Lx	5Lx / 50Lx
II	ON	-	25Lx	25Lx / 100Lx
III	-	ON	50Lx	50Lx / 150Lx
IV	-	-	Disable	Disable

4) Stand-By Period

	7	8	
I	ON	ON	0s
II	-	ON	1min
III	ON	-	10min
IV	-	-	+∞

Initialisation

When switched on, the luminaire will start at 100% brightness. After 10 seconds, the light will switch off. During the initialisation process, the product will not detect moving signals.

Factory Settings

- **Sensitivity: 100%**
- **Hold Time: 5s**
- **Stand-By Period: 0s**
- **Daylight Sensor: Disabled**

Important Notes

- 1)** The sensor should only be installed by a qualified electrician.
- 2)** The microwave sensor is able to penetrate wood and plastic, but the area near and in front of the microwave sensor should not be close to metal accessories, metal shells or glass shells. These may effect the transmission and reception of the microwave antenna.
- 3)** Power must be off before any installation, wiring, or changing of DIP switch settings takes place.
- 4)** The light sensitivity threshold is a daylight environment, with no shadow and ambient light diffusion reflections. Ambient lux levels could be compatible to various environments (weather, climate, time-of-day).
- 5)** Parameters may need adjusting in certain environments. Be sure to carefully read the below notes before installing or adjusting.
- 6)** The sensor is built for indoor use only. Wind, rain and moving objects may cause false triggering, and performance can be affected by water.
- 7)** The sensor should always be at least 2m distance from other sensors, wireless devices, routers and switches to avoid radio interference. For 5G Wi-Fi devices, the distance may need to be greater.
- 8)** Do not place the sensor too close to high-density objects or materials, such as metals, glass, concrete, walls etc. Placing the sensor too close may cause false triggering. Installation within a metal fitting, metal reflective surface or inside a narrow enclosure may also cause false triggering (reduce the sensitivity, or avoid installing in these environments.)
- 9)** To avoid false triggers, please ensure that there are no moving signals around the sensor. This may include fans, DC, motors, sewage pipes or air outlets.