

## LED strip to upgrade LF212 2FT 9W lamp



### Application

The LED strip was developed to be compatible with the LF212 2FT 9W lamp that is widely in use in common areas of HDBs in Singapore.

An integrated state-of-the-art microwave motion detector sensor allows to save up to 97% and significantly reduces electricity bills and carbon footprint.

### Environmental benefits

- Reducing power consumption and carbon footprint up to 98% during "out of work" time
- Low e-waste: LED strip upgrade produced much less waste compared to the total lamp replacement
- Longer life span due to better thermal performance (aluminium substrate) and lesser power consumption

### Low upgrade cost

- LED strip is much cheaper than entire lamp
- Easy to replace: the strip has the same positions of mounting holes and wire connections points
- The strip is mechanically and electrically compatible with model LF212-840
- Simple replacement: the strip can be replaced "in-field" by simple tools like a screwdriver
- Terminal blocks for fast wiring
- Low voltage wiring: the strip utilizes the existing 30V power supply

### Safety and Security

- Dim light: LED strip provides dimmed light to commuters to observe the surrounding area
- High motion sensitivity: virtually impossible to hide and stand still without triggering a light on
- Wall penetration: light would be triggered on even out of a direct sign of a commuter
- Long detection range: up to 7m for approaching/departing human

### Electrical specs

Parameter	Value	Unit
Typical supply voltage, DC	20.5	V
Max. supply voltage, DC	60	V
Operational current, dimmed light mode, @20.5V	7	mA
Power consumption, dimmed light mode, @20.5V	0.15	W
Operational current, full light mode, @20.5V	340	mA
Power consumption, full light mode, @20.5V	7	W
Power saving (in dimmed light mode compared to full light mode)	97	%