



M900FC compact LED batten



An emergency and power supply light that provides visual condition for safety evacuation and featuring with maintain and non-maintain optional installation



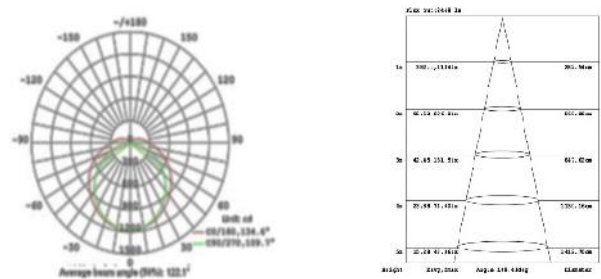
- The luminaires were tested in accordance with IEC62493:2015 and in conformity with SS563-2010 and relevant IEC standard.
- Emergency converter is complied with IEC61347-1:2011 standard.
- Emergency lighting requirements of IEC 60598-2-22 test report is available upon request.
- Microwave motion sensor could be provided for energy saving purposes could be provided, if require.

Physical Characteristic

Construction of housing	The housing is fabricated by Makrolon ET3117 impact resistant and UV stable polycarbonate material that enhance the impact strength and excellent heat dissipation efficiency. Thus, it is adaptable to rugged environmental with temperature resistant capability from -40 ~ +75°C.
Installation	Fitting and accessories are available for either surface-mount or drop-down installation.
Ingress protection	IP54 rating is compliant
Mechanical impact	IK06 rating is compliant
Operation temperature	-20°C ~ +50°C
Operation humidity	Rh ≤95% @ -20°C to +50°C
Rated life span	>50000 hours (L70 @ IED LM80)
Harmonic distortion THD	15%
Industrial standard	IEC 61347-2-7:2011 (emergency converter) IEC 62031:2018 (LED modules) IEC TR 62778:2014 (blue light risk) IEC 61058-1:2000 (test switch)

Light Characteristic

Light source	High intensity SMD2835
Luminous efficacy	≥130 lumen per watt
Beam angle	120 degrees
Color rendering index	≥80 Ra
Correlated color temp	3000K (K3); 4000K (K4); 5000K (K5)
Glaring index	UGR ≤25



Electrical Characteristic

Input power	220~240VAC, 47/63Hz
Stroboscope	Wave depth ≤0.5% (IEE 1789)
Current accuracy	±5%
Total harmonic	≤20%@230Vac
Surge current	≤30A@200uS@230Vac
Power factor	≥0.95
Power efficiency	≥88% of operating voltage 34~40VDC
Short-circuit	Self-recovery in hiccup mode
Operating temperature	-30 - +50
Working humidity	20-90%RH (without condensation)
Safety standards	ENEC: EN61347-1:2015 · EN 61347-2-13:2014/A1:2017 EN 62384 : 2016/A1:2009 CE-LVD: EN 61347-2-13:2014/A1:2017 · EN 61347-1:2015 · EN 62493:2015

Microwave Motion Sensor (optional)

Installation	Fitted inside the housing of luminaire
Frequency	5.8GHz/±75MHz
Microwave power	<0.3mW
Input power	24W (max)
Standby power	0.5W (230Vac)
Input current	0.12A(max)
Output LED voltage	28~42VDC
Standby period (preset)	0s/30s/1min/+∞
Standby dimming level	10%/30%
Mounting height	2.5~6.0m ceiling height
Detection range	4~7m radius from ceiling
Operation temperature	Ta: 20°C~50°C, Tc: 80°C
Brightness/holding time	Monitored by remote control device

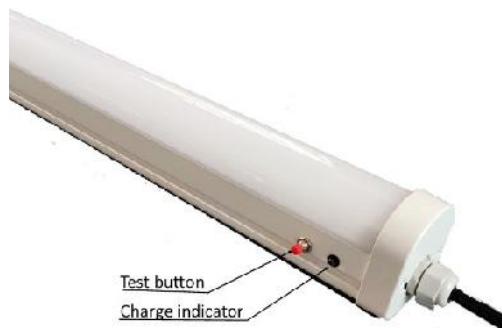
Electromagnetic anti-interference	CE-EMC/RCM: EN61000-4-2,3,4,5,6,11(L-N:1KV, L/N-PG:2KV) CCC:GB/T17626.2,3,4,5,6,11(L-N:1KV, L/N-PG:2KV)
Ingress protection rating	IP20
Cable grand type	PTM16 for 300/500V neoprene wire
Protection types	OCO, OVP, SCO



2.4 cell lithium-ion phosphate battery

LED Emergency Converter

AC input current 10-50mA	10~50mA
AC input power	Rated 4W max
Power factor	>0.5
Battery type	High-temp 2.4 cell lithium-ion phosphate battery
Battery voltage	3.2V/cell
Short term temperature	70°C
Ambient temperature	0 to + 50°C
Charging mode	Trickle re-chargeable
Output emergency power	2~6W, DC10~72V (DC80V max)
Battery capacity (LiFeO ₄)	1500mAh, 3000mAh
Battery charging current	0~250nA
Green light on	Indicates battery is charging
Green light off	Indicates device is malfunction
Casing temperature	Tc 70°C
Lumen performance capacity	100lm per watt



Product Specification (Standard features)

Model #	Wattage		Luminous Efficacy (lumen)	Overall Size (mm)		
	Rated	System		L	W	H
M9060FS-080W10KX	10.0W	10.5W	1300~1400	600	82.7	67.0
M9060FS-120W15KX	15.0W	15.8W	1950~2100	600	82.7	67.0
M9120FS-160W20KX	20.0W	21.1W	2600~2800	1200	82.7	67.0
M9120FS-288W36KX	36.0W	37.9W	4690~5040	1200	82.7	67.0
M9120FS-320W42KX	42.0W	42.1W	5460~5880	1200	82.7	67.0
M9150FS-400W50KX	50.0W	52.6W	6500~7000	1500	82.7	67.0
M9150FS-480W60KX	60.0W	63.2W	7800~8400	1500	82.7	67.0
M9150FS-560W70KX	70.0W	73.7W	9100~9800	1500	82.7	67.0



End-cap connectors of linear

Installation

The stainless-steel convex bracket

The luminaire is designed for either ceiling mounted or suspended installation. Two pieces of stainless-steel convex spring brackets could be simply clipped to the glove provided by the fitting and further secured by PM4 x 40mm tightening screws after clip-on (see picture below).

Two ellipse holes on top of the spring convex bracket are provided for concrete ceiling mounting purposes. Whereas, the round hole at the center would be used for mounting the wire or steel rod for suspended installation.



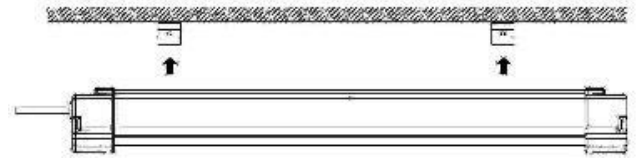
Surface-mounted installation

Step 1: Mounting two convex brackets to the concrete ceiling by M6 self-taped screw with wall plug at an adequate distant as shown in picture on right.

Step 2: The groove as provided by the fitting could be easily seized the luminaire with the spring convex bracket.

Step 3: Tightening the PM4 x 40mm security screw to the spring convex bracket as shown in picture above.

Step 4: Connect the grid power supply with the luminaire to complete the installation.



Suspended installation

Step 1: Secure the mounting bracket of the suspended steel rods or pipes to the concrete ceiling.

Step 2: Fastening the top end of the steel rods or pipes of specific drop-down length with the mounting brackets.

Step 3: Connect the bottom end of the steel rods or pipes with the center round hole of the convex bracket.

Step 4: Seizing the luminaire to the groove as provided by the fitting and tightening the PM4 x 40mm security screws to the spring convex bracket.

Step 5: Connect the grid power supply with the luminaire to complete the installation.

