Born for Industrial Safety



ArcherTM (NJZ-FEL-G Series)

Hazardous Location LED Luminaire





Archer™



Hazardous Location LED Luminaire NJZ-FEL-G Series

Product description

The Archer™ FEL-G Series LED linear is designed for installations in hazardous area with presence of flammable gases or combustible dusts as defined by ATEX / IECEx for Zone 1/21 applications. New generation is great for replacing of existing fluorescent lighting system and provide an incredible 209,000 (L70) maintenance free hours at 25°C.

Features

- Low profile design allows installation in work areas with low ceiling heights
- Lens and LED driver field replaceable by qualified personnel on-site
- UV stable and impact resistant clear or diffused PC lens (Standard) to minimize glare
- One wiring access cover with captive screws as standard, two(optional) for end to end feed through wiring WAGO screwless terminal block with 5-pole 6mm² max conductor for easy wiring
- Single Lens model 20W to 40W; Double Lens model 40W to 100W*
- High luminous efficacy Up to 120 lm / W.
- Universal Voltage: AC120-277V (50/60Hz)
- Superior CRI80 compared to HPS, LPS, MH
- Ambient range from 40°C to + 55°C (-20°C to 50°C for Emergency Model)
- Standard 12W 90mins operation time for emergency mode (6W 180mins optional)
- Resistant to shock and vibration

Compliance

20 to 60W: II 2 G Ex db eb mb IIC T6 Gb

II 2 D Ex tb IIIC T80°C Db

>60 to 100W: II 2 G Ex db eb mb IIC T5 Gb

II 2 D Ex tb IIIC T80°C Db

Zone 1, 21 CE EMC / LVD / EMF EN 62471 IP66 / IK10 / 5G 1000hrs salt spray

Application

Power Plants / Heavy Industrials
Storage Facility / Paper mills
Wastewater Treatment Plants
Loading Docks / Platforms / Shipyards Chemical
Processing Facility

Warranty

5-Year Standard Warranty (Battery not included)* * Subject to NJZ general T & C. LED lumen Maintenance: L70 >150,000 hours @ 55°C ambient

Petrochemical Processing Facility





Technical Parameter

Electrical

Specification	NJZ-FEL-G-20	NJZ-FEL-G-30	NJZ-FEL-G-40
Rated Power	20W	30W	40W
Input Voltage		AC120-277V	
Input Frequency		50/60Hz	
Input Current (AC120V)	182mA	242mA	330mA
Input Current (AC230V)	99mA	128mA	172mA
Power Factor		≥0.95	
Driver Efficiency		≥90%	
THD		<20%	
Surge Protection		6KV Line-to gro	ound
Battery Material		Nickel-cadmiur	n
Expected Battery*		3 Year	
Battery Duration*	Standard 12W	90mins @ -20~+50°C	(6W 180mins Optional

^{*}All values typical (tolerance

+/-10%) Optical

Specification	NJZ-FEL-G-20	NJZ-FEL-G-30	NJZ-FEL-G-40
Lumen Output	2400lm	3600lm	4400lm
Lumens Per Watt		120lm/W	
Beam Angle		110°	
Correlated Color Temperature (CCT))	2700K/4000K/5000K/5	700K
Color Rendering Index (CRI)		Ra>80	

Environmental

Specification	NJZ-FEL-G-20	NJZ-FEL-G-30	NJZ-FEL-G-40	
Ambient Operating Temperature	- 40°C to + 55°C -20°C to 50°C (Emergency Model)			
Optimal Operating Temperature	25°C (77°F)			
Gas Environment	T6			
Dust Environment	T80°C			

Mechanical

Specification	NJZ-FEL-G-20	NJZ-FEL-G-30	NJZ-FEL-G-40		
Housing Material		Marine grade aluminum			
Endcap / Front cover	Сорре	er-free (< 0.4%) die-cas	st aluminum		
Hardware		Stainless steel 316			
Lens Material		Polycarbonate			
Color	Dark Grey (RAL7037)				
Finish	Polyester pow	Polyester powder coating for uniform corrosion resistance			
Protection		IP66 / IK10			
Cable entries	4 x M25 -	2 at each end (Standa	rd, others optional)		
Termination	L1 , L2 , L	3 , N , PE; each Termir	nal 2x6mm² max		
Wiring	One access	cover standard, two f	or through wiring		
Mounting	Ceiling (Flush mo	ount), Wall, Suspended	l (Chain/Eyebolt), Pole		





Technical Parameter

Electrical

Specification	NJZ-FEL-G-50	NJZ-FEL-G-60	NJZ-FEL-G-80	NJZ-FEL-G-100
Rated Power	50W	60W	80W	100W
Input Voltage		AC12	0-277V	
Input Frequency		50/	/60Hz	
Input Current (AC120V)	402mA	497mA	651mA	825mA
Input Current (AC230V)	212mA	264mA	340mA	435mA
Power Factor	≥0.95			
Driver Efficiency	≥90%			
THD	<20%			
Surge Protection	6KV Line-to ground			
Battery Material	Nickel-cadmium			
Expected battery*	3 Year			
Battery Duration*	Standar	d 12W 90mins @	-20~+50°C (6W 1	80mins Optional)

^{*}All values typical (tolerance+/-10%)

Optical

Specification	NJZ-FEL-G-50	NJZ-FEL-G-60	NJZ-FEL-G-80	NJZ-FEL-G-100
Lumen Output	5500lm	6800lm	8700lm	10000lm
Lumens Per Watt	120lm/W			
Beam Angle			110°	
Correlated Color Temperature (CCT)	2700K/4000K/5000K/5700K			
Color Rendering Index (CRI)	Ra>80			

Environmental

Specification	NJZ-FEL-G-50 NJZ-FEL-G-60	NJZ-FEL-G-80	NJZ-FEL-G-100
Ambient Operating Temperature		to + 55°C C (Emergency Mod	lel)
Optimal Operating Temperature	25°C (77°F)		
Gas Environment	Т6	Т	5
Dust Environment	Т	30°C	

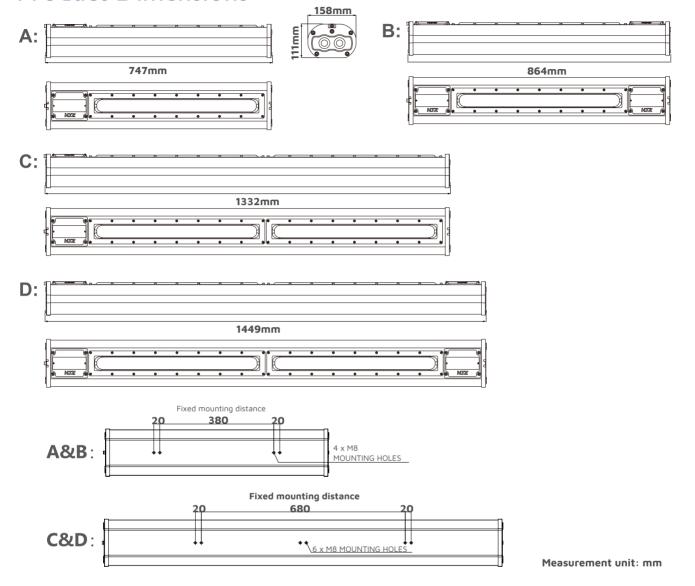
Mechanical

Specification	NJZ-FEL-G-50 NJZ-FEL-G-60 NJZ-FEL-G-80 NJZ-FEL-G-100
Housing Material	Marine grade aluminum
Endcap / Front cover	Copper-free (< 0.4%) die-cast aluminum
Hardware	Stainless steel 316
Lens Material	Polycarbonate
Color	Dark Grey (RAL7037)
Finish	Polyester powder coating for uniform corrosion resistance
Protection	IP66 / IK10
Cable entries	4 x M25 - 2 at each end (Standard, others optional)
Termination	L1 , L2 , L3 , N , PE; each Terminal $2x6 \text{ mm}^2 \text{ max}$
Wiring	One access cover standard, two for through wiring
Mounting	Ceiling (Flush mount), Wall, Suspended (Chain/Eyebolt), Pole





Product Dimensions

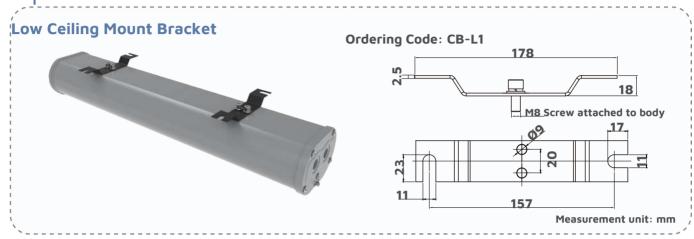


Model No.	Net Weight (Product)	Product Dimension	Gross weight	Package Dimension (L×W×H)
A: NJZ-FEL-G-20/30/40	6.3kg	747×158×111 mm	7.3kg	809×220×170 mm
B: NJZ-FEL-G-20/30/40	6.7kg	864×158×111 mm	7.7kg	920×220×170 mm
C: NJZ-FEL-G-40/50/60/80/100	9.5kg	1332×158×111 mm	10.5kg	1388×220×170 mm
D: NJZ-FEL-G-40/50/60/80/100	9.9kg	1449×158×111 mm	10.9kg	1505×220×170 mm



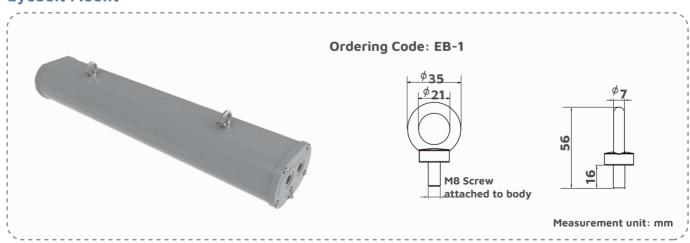
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Mounting Options



High Ceiling Mount Bracket Ordering Code: CB-H1 2-M8 Screw attached to body Measurement unit: mm

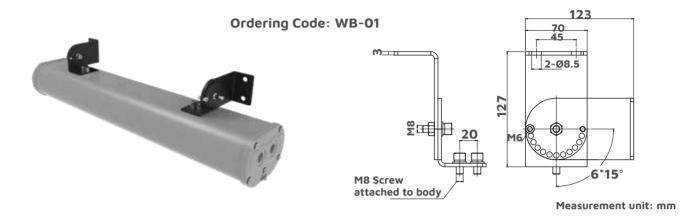
Eyebolt Mount



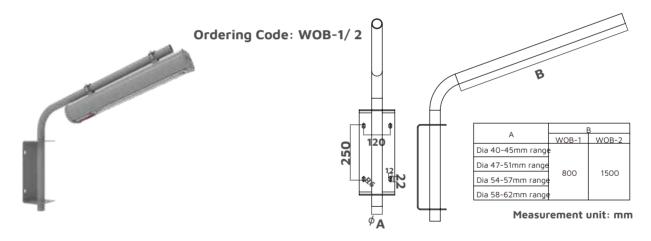




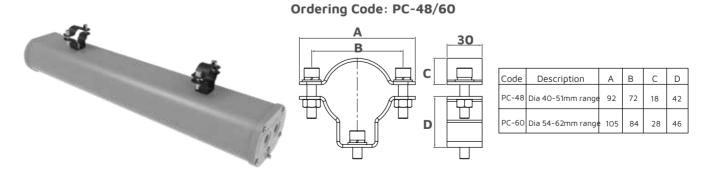
Wall Mount Swivel Bracket



Wall Mounting Outreach Bracket



Pole Mount Clamp



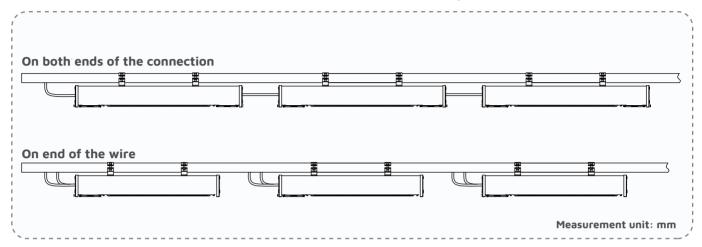
Measurement unit: mm





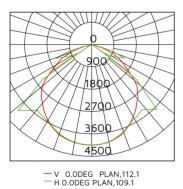
Through Wiring

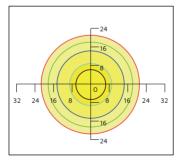
In-out connection can be made on one or both sides for quick installation



Photometric

110 Degree





Illumination-110 Degree 6m 20m 16 lx 8m 26m 9 lx 10m 33.6m 6 lx Diameter

Mounting Height 10m, 0 Tilt Flux out: 5253 lm



Ordering Information and Mounting Accessories

NJZ — FEL-G — 40 — EM12 — VO1 — RL — T — 1AC — OO1 — XX

Brand Series Power Emergency Battery Backup Voltage Color Temp Lens Wiring Cable Entries

^{*:} Suffix not within nomenclature as per Certification, for marketing purpose only

BRAND	<u>SERIES</u>	POWER	EMERGENCY BATTERY BACKUP	COLOR TEMP
NJZ	FEL-G	20 =20W	BLANK =Standard (Non Emergency)	RD =2700K
		30 =30W	EM6 =6W 180mins	RL =4000K
		40 =40W *	EM12 =12W 90mins (Emergency Standard)	RZ =5000K
		50 =50W		RM =5700K
		60 =60W	VOLTAGE	RD = Red
		80 =80W	V01 =AC120-277V	GN =Green
		100 =100W	76. 7.6.26 2777	BU = Blue
		100 = 10000		AM =Amber

(*please speficy if single or double Lens)

<u>LENS</u> <u>WIRING</u>

T = Transparent PC 1AC = Single Access Cover (standard)

F = Frosted PC 2AC = Dual Access Cover

CABLE ENTRIES

001 =4 X M20 X 1.5

002 = 4 X M25 X 1.5 (Standard)

003 =4 X NPT 1/2 004 =4 X NPT 3/4

ACCESSORIES

CB-L1 =Low Ceiling Mount Bracket 1 pair
CB-H1 =High Ceiling Mount Bracket 1 pair

EB-1 = Eyebolt 1 pair

WB-01 = Wall Mount Swivel Bracket 1 pair
WOB-1 = 0.6M wall mounting outreach bracket x1
WOB-2 = 1.2M wall mounting outreach bracket x1
PC-48 = Dia 40-51mm range SS316 pole clamp 1 pair
PC-60 = Dia 54-62mm range SS316 pole clamp 1 pair

SC01 = Safety cable x1

R-D40 =Replacement Driver x1 (20~40W models)
R-D60 =Replacement Driver x1 (50~60W models)
R-D100 =Replacement Driver x1 (70~100W models)

R-T =Replacement PC Lens, clear x1
R-F =Replacement PC Lens, frosted x1
R-B =Replacement Battery Pack x1

INSTALLATION TIPS

1. Wago Termination

Conductor range: 0.5 ... 4 (6) mm2 (20 ... 10 AWG)

Rated voltage: 800 V

Rated current/(max. current): 32 A (41 A)

2. Cable gland & Plug

Standard: Plastic plugs x4 + Plastic Cable gland x1 Optional:

Contact sales for other selections

3. Dimming

Standard: 0-10V Dimming (10-100%)

4. Emergency

Auto self-diagnostics function applied

minimum 30 seconds test once a week to verify the status as per

LED indicator











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CB-L1 Low Ceiling Mount Bracket 1 pair



CB-H1 High Ceiling Mount Bracket 1 pair



EB-1 Eyebolt 1 pair



WB-01 Wall Mount Swivel Bracket 1 pair



WOB-1/2 Wall Mounting Outreach Bracket x1



PC-48/60 SS316 Pole Clamp 1 pair



SC01 Stainless Steel Safety Cable kit



R-D40/60/100 Replacement Driver x1



R-T Replacement PC Lens, clear x1



R-F Replacement PC Lens, frosted x1



R-B Replacement Battery Pack x1