Durable Lighting Made for Industrial Safety



Hazardous Location LED Luminaire

B Series (Zone 1, 2, 21, 22)















B3

B4





Convex Glass (Optional)

Globe Glass with Wire Guard (Optional)









Product Description

The B Series LED luminaire is the ideal choice for marine and hazardous applications. They can be used in locations where moisture, dirt, dust, corrosion and vibration may be present, or areas where wind, water, snow or high ambient can be expected.

Features

- 0-10V dimming
- High luminous efficacy Up to 140 lumens per watt
- Compact and robust structure, excellent reliability
- Various installation ways for different applications
- Great impact resistance with IK08/IK10 certified



Compliance

ATEX Standard:

IECEx Standard:

Ex eb mb IIC T6...T4 Gb Ex tb IIIC T80°C...T100°C Db

Zone 1&2. Zone 21&22

CB (Ref. Certif. No.: DE 2-038462-M1)

NSF

Ta. -40°C~+65°C 1000 hours salt spray

IP66 (according to IEC 60079-0)/IP67

IK08 (glass cover) IK10 (with wire guard)

5G vibration

Application

- Power Plants
- Heavy Industrials Storage Facility
- Paper mills
- Wastewater Treatment Plants
- Loading Docks Platforms
- Offshore Environments
- Chemical Processing Facility
- Petrochemical Processing Facility
- Metallurgical Industry
- Coal Mine
- Food and Alcohol industry

Warranty

5-Year Standard Warranty

LED lumen Maintenance: L70> 150,000 Operation Hours@55°C









Technical Parameter

Electrical

Specification	EX-20W-B2 YZDAF	EX-40W-B2 YZDAF	EX-60W-B YZDAF	EX-80W-B YZDAF		
Rated Power	20W	40W	60W	80W		
Input Voltage	200-250VAC					
Input Frequency	50/60Hz	50/60Hz				
Power Factor	> 0.95					
Emergency	No emergency function					

Optical

Specification	EX-20W-B2 YZDAF	EX-40W-B2 YZDAF	EX-60W-B YZDAF	EX-80W-B YZDAF		
Lumen Output	3023lm	5,600lm	8,400lm	11,200lm		
Lumens Per Watt	148lm/W	140lm/W	140lm/W	140lm/W		
ССТ	2200K-7000K	2200K-7000K				
CRI	> 70	> 70				
Beam Angle	40°/45°/60°/90°					
Dimming	0-10V dimming					

Environmental

Specification	EX-20W-B2 YZDAF	EX-40W-B2 YZDAF	EX-60W-B YZDAF	EX-80W-B YZDAF
Ambient Operating Temperature	T6: -40°C to +65°C (-40°F to +149°F)	T5: -40°C to +50°C (-40°F to +122°F) T6: -40°C to +40°C (-40°F to +104°F)	T5: -40°C to +45°C (-40°F t T6: -40°C to +40°C (-40°F t	,

Mechanical

Specification	EX-20W-B2 YZDAF	EX-40W-B2 YZDAF	EX-60W-B YZDAF	EX-80W-B YZDAF	
Housing Material	Copper-free aluminum				
Lens	Tempered glass & PC				
Hardware	Stainless steel	Stainless steel			
Fixture Color	Gray RAL7040 (Standar	Gray RAL7040 (Standard)			
Protection	IP66/IP67/IK08 (glass co	over)/IK10 (with wire guard)			
Mounting	Wall, Pole, Ceiling, Arm, Stanchion, Hook				
Cable Entries*	Side: 3/4 NPT, M20, M25, 1/2NPT Top: 3/4 NPT, M25				

^{*}Cable Entries: For side and top, 3/4 NPT is standard. If others are required, customer needs to indicate when placing an order.



Technical Parameter

Electrical

Specification	EX-100W-B3 YZDAF	EX-120W-B3 YZDAF	EX-150W-B3 YZDAF	EX-200W-B3 YZDAF		
Rated Power	100W	120W	150W	200W		
Input Voltage	200-250VAC					
Input Frequency	50/60Hz	50/60Hz				
Power Factor	> 0.95					
Emergency	Optional	Optional				

Optical

Specification	EX-100W-B3 YZDAF	EX-120W-B3 YZDAF	EX-150W-B3 YZDAF	EX-200W-B3 YZDAF		
Lumen Output	16,183lm	16,800lm	23,286lm	28,000lm		
Lumens Per Watt	160lm/W	140lm/W	155lm/W	140lm/W		
ССТ	2200K-7000K					
CRI	> 70	>70				
Beam Angle	40°/45°/60°/90°					
Dimming	0-10V dimming	0-10V dimming				

Environmental

Specification	EX-100W-B3 YZDAF	EX-120W-B3 YZDAF	EX-150W-B3 YZDAF	EX-200W-B3 YZDAF
Ambient Operating	T5: -40°C to +55°C	T5: -40°C to +55°C	T5: -40°C to +40°C	T5: -40°C to +40°C
Temperature	(-40°F to +131°F)	(-40°F to +131°F)	(-40°F to +104°F)	(-40°F to +104°F)

Mechanical

Specification	EX-100W-B3 YZDAF	EX-120W-B3 YZDAF	EX-150W-B3 YZDAF	EX-200W-B3 YZDAF		
Housing Material	Copper-free aluminum					
Lens	Tempered glass & PC	Tempered glass & PC				
Hardware	Stainless steel	Stainless steel				
Fixture Color	Gray RAL7040 (Standar	Gray RAL7040 (Standard)				
Protection	IP66/IP67/IK08 (glass co	IP66/IP67/IK08 (glass cover)/IK10 (with wire guard)				
Mounting	Wall, Pole, Ceiling, Arm, Stanchion, Hook					
Cable Entries*	Side: 3/4 NPT, M20, M2 Top: 3/4 NPT, M25	Side: 3/4 NPT, M20, M25, 1/2NPT Top: 3/4 NPT, M25				

^{*}Cable Entries: For side and top, 3/4 NPT is standard. If others are required, customer needs to indicate when placing an order.



Technical Parameter

Electrical

Specification	EX-250W-B4 YZDAF	EX-300W-B4 YZDAF	EX-350W-B4 YZDAF	EX-400W-B4 YZDAF		
Rated Power	250W	300W	350W	400W		
Input Voltage	200-250VAC	200-250VAC				
Input Frequency	50/60Hz	50/60Hz				
Power Factor	> 0.95					
Emergency	Optional	Optional				

Optical

Specification	EX-250W-B4 YZDAF	EX-300W-B4 YZDAF	EX-350W-B4 YZDAF	EX-400W-B4 YZDAF		
Lumen Output	35,000lm	42,000lm	49,000lm	65,163lm		
Lumens Per Watt	140lm/W	140lm/W	140lm/W	158lm/W		
CCT	2200K-7000K					
CRI	> 70	>70				
Beam Angle	40°/45°/60°/90°					
Dimming	0-10V dimming					

Environmental

Specification	EX-250W-B4 YZDAF	EX-300W-B4 YZDAF	EX-350W-B4 YZDAF	EX-400W-B4 YZDAF
Ambient Operating	T6: -40°C to +40°C	T6: -40°C to +40°C	T5: -40°C to +30°C	T5: -40°C to +30°C
Temperature	(-40°F to +104°F)	(-40°F to +104°F)	(-40°F to +86°F)	(-40°F to +86°F)

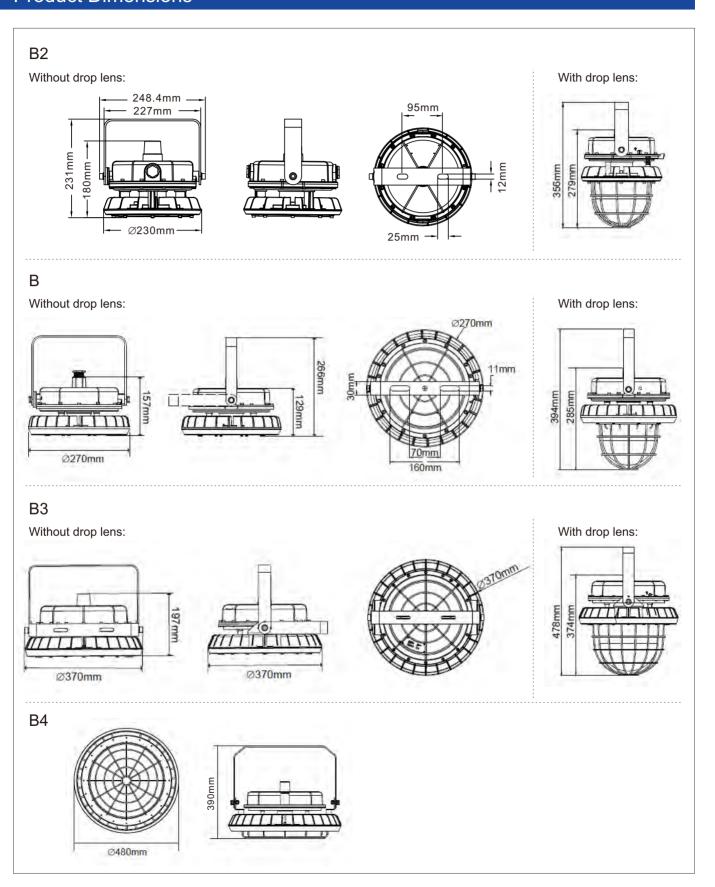
Mechanical

Specification	EX-250W-B4 YZDAF	EX-300W-B4 YZDAF	EX-350W-B4 YZDAF	EX-400W-B4 YZDAF	
Housing Material	Copper-free aluminum	Copper-free aluminum			
Lens	Tempered glass & PC	Tempered glass & PC			
Hardware	Stainless steel	Stainless steel			
Fixture Color	Gray RAL7040 (Standar	Gray RAL7040 (Standard)			
Protection	IP66/IP67/IK08 (glass co	IP66/IP67/IK08 (glass cover)/IK10 (with wire guard)			
Mounting	Wall, Pole, Ceiling, Arm, Stanchion, Hook				
Cable Entries*	Side: 3/4 NPT, M20, M2 Top: 3/4 NPT, M25	5, 1/2NPT			

^{*}Cable Entries: For side and top, 3/4 NPT is standard. If others are required, customer needs to indicate when placing an order.

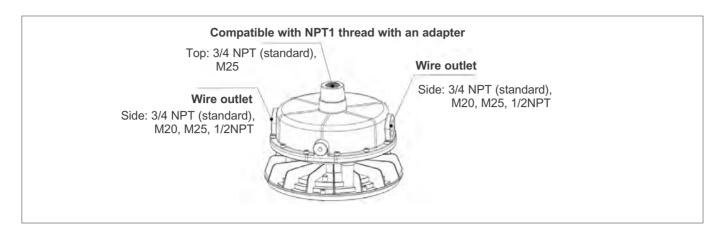


Product Dimensions





Cable Entries



Packing Information

Model	Net Weight*	Gross Weight*	Quantity/Carton	Package Dimensions (LxWxH)
EX-XXXW-B2 YZDAF	3.5kg	5.0kg	1 pc	360x354x260mm
EX-XXXW-B YZDAF	4.4kg	5.5kg	1 pc	386x330x220mm
EX-XXXW-B3 YZDAF	8.2kg	10.5kg	1 pc	480x460x265mm
EX-XXXW-B4 YZDAF	17.0kg	19.5kg	1 pc	572x572x291mm

^{*}Please note that net weight and gross weight may be subject to change because of actual configuration.

Ordering Guide



1. Model Series	2. Wattage	3. Product Code	4. Dimmable Optinal
Explosion-proof Light	B2: 20/40W B: 60/80W B3: 100/120/150/200W B4: 250/300/350/400W	B B2 B3 B4	Y: Dimmable N: Non-dimmable

5. Color Temp.	6. Beam Angle	7. Glass Type	8. Optional
22=2200K, 30=3000K, , 70=7000K	D40=40° D60=60° D90=90° D120=120°	A=blank: flat glass A=C: Drop lens & wire guard	F: for food zone or blank

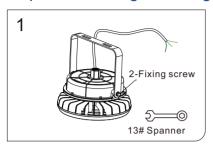


Photometric

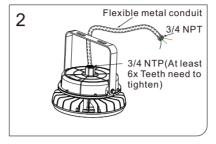




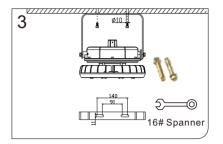
• Option 1: Ceiling Mounting



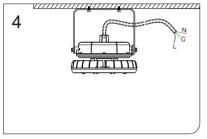
1. Take the fixture and accessory out from carton box, tighten 2x angle holder screw as Fig.1.



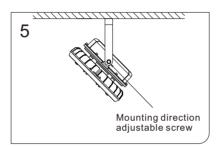
2. Install and tighten flexible metal conduit with the fixture.



3. Drill 2x hole as shown in Fig.2, the distance can be 91~140mm, fixing Ø10 expansion crews and bracket on ceiling.

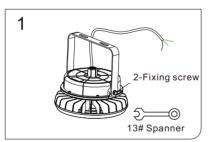


4. Connect black cable to L, white to N, green to grounding.

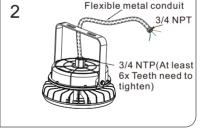


5. Adjust the beam angle from 0-180°.

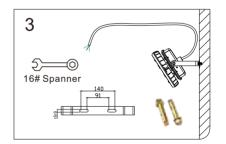
Option 2: Wall Mounting



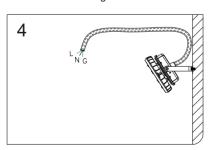
1. Take the fixture and accessory out from carton box, tighten 2x angle holder screw as Fig.1.



2. Install and tighten flexible metal conduit with the fixture.



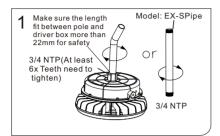
3. Drill 2x hole as shown in Fig.2, the distance can be $91\sim140$ mm, fixing $\varnothing10$ expansion crews and bracket on ceiling.



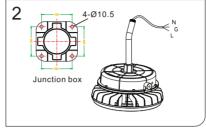
4. Connect black cable to L, white to N, green to grounding.



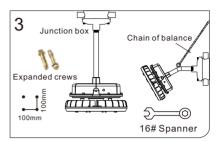
Option 3: Pole Pendant Mounting



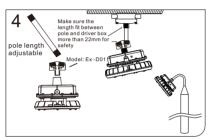
1. Take the fixture and pole accessory out from carton box, tighten pole as shown in Fig.1.



2. Connect black cable to L, white to N, green to grounding.

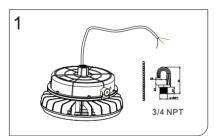


3. Drill 4x Ø10mm holes, as 100mm distance, install the junction box to the wall or ceiling as shown in Fig.3, tighten the pole to the box, and adjust the chain of balance.

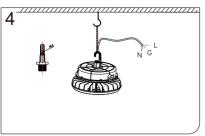


4. Adjustable pole installation. With this adjustable kit, make any light distribution direct as needed. Optional: install the fixture to the long pole after cable connecting.

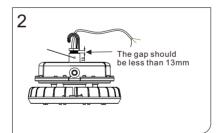
• Option 4: Hook Pendant Mounting



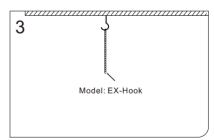
1. Take the fixture and accessory out from carton box, tighten 2x angle holder screw as Fig.1.



4. Connect black cable to L, white to N, green to grounding.



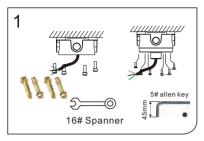
2. Tighten the hook with the fixture, at least 6x teeth need to be tightened, fix the M3 screw to prevent the hook from loosening.



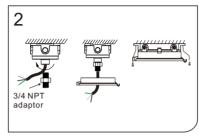
3. Drill 1 expansion screw hole and install it, and hang the chain as shown in Fig.3.



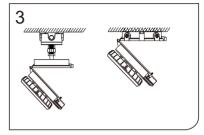
Option 5: Ceiling Mounting by Opening Driver Box



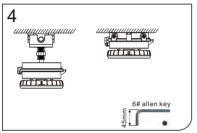
1. Take the fixture and pole accessory out from carton box, tighten pole as shown in Fig.1.



2. Install the 3/4" NPT adapter through the cable to the hole of adaptor, tighten the driver enclosure cover to adaptor via M4 screw to prevent loosening.

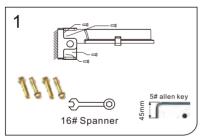


3. Connect black cable to L, white to N, green to grounding.



4. Tighten 3x M8 screws for driver enclosure as shown above.

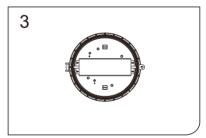
• Option 6: Arm Mounting by Opening Driver Box (1)



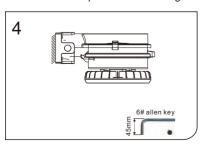
1. Install the 3/4" NPT adapter through the cable to the hole of adaptor, tighten the driver enclosure cover to adaptor via M4 screw to prevent loosening.



2. Hang the luminaire to the back cover.



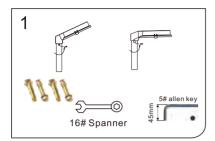
3. Connect black cable to L, white to N, green to grounding.



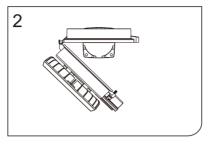
4. Tighten 3x M8 screws for driver enclosure as shown above.



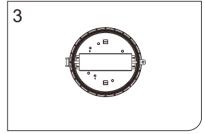
• Option 7: Arm Mounting by Opening Driver Box (2)



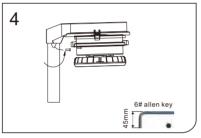
1. Install the 3/4" NPT adapter through the cable to the hole of adaptor, tighten the driver enclosure cover to adaptor via M4 screw to prevent loosening.



 $\ \ \, \hbox{2. Hang the luminaire to the back cover.}$

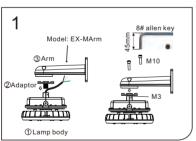


3. Connect black cable to L, white to N, green to grounding.

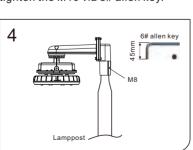


4. Tighten 3x M8 screws for driver enclosure as shown above.

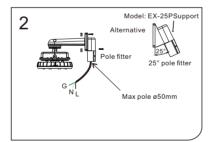
• Option 8: Stanchion Mounting



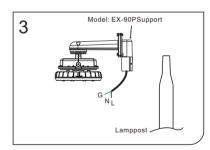
1. Tighten part 2 and assembly 1, fix the M3 screw, install arm to the adaptor, tighten the M10 via 8# allen key.



4. Slip the fitter to the lamppost and tighten M8 inner hexagonal screw.



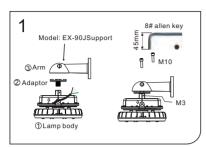
2. Install the pole fitter with arm via 4x M8 screws, the max suitable pole diameter 50mm, the alternative 25° pole fitter.



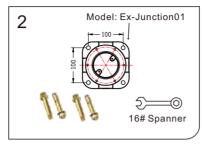
3. Connect the cable to AC wire, black connects to live wire, white to null wire, green to grounding.



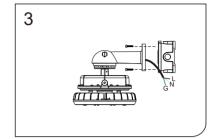
Option 9: Wall Mounting to Junction Box



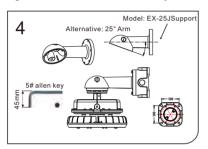
1. Tighten part 2 and assembly 1, fix the M3 screw, install arm to the adaptor, tighten the M10 via 8# allen key.



2. Drill 4x 10mm holes. Install the junction box to the wall via M10 expanded screw.



3. Connect the AC wire to power system, black to Live wire, white to Null wire, green to grounding.



4. Tighten 6x screws between arm and junction box, turn on the power to test the luminaires work.

Accessories

