

PFX-9601

A Series (Zone 2 & Class I Division 2)



DESCRIPTION

The A 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 optional
- High luminous efficacy - Up to 140 lumens per watt
- Battery backup function: emergency only available for A3 and A4
- Compact and robust structure, excellent reliability
- Various installation ways for different applications
- Great impact resistance with IK08/IK10 certified
- Die-cast aluminum housing, great corrosion resistance and cooling performance

COMPLIANCE

ATEX Standard:

II 3G Ex ec IIC T6...T3 Gc

II 2D Ex tb IIIC T85°C...T103°C Db IP66

ECEX Standard (Certificate No.: IECEx PCET 22.0008X):

Ex ec IIC T6...T3 Gc

Ex tb IIIC T85°C...T100°C Db

Ex tc IIIC T85°C...T100°C Dc

Zone 2, Zone 21&22

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

UL 844 Hazardous Locations
Class I Division 2, Group A, B, C, D
Class II Division 1, Group E, F, G
Class II Division 2, Group F, G
Class III

Class I, Zone 2, Group IIC
Class II, Zone 21, Group IIIC

UL 1598 Wet Locations
UL 1598A Marine Outside Type

ETL (ATM for Report 105342415DAL-001)

ABS

DLC*

IP66

IK08 (without wire guard)

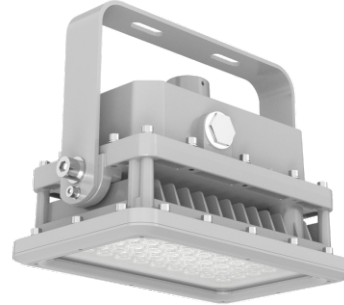
IK10 (with wire guard)

1000 hours salt spray

*Not all product variations listed on this spec sheet are DLC qualified. Visit www.designlights.org/search to confirm qualification.

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A2



A



A3



A4



Visor Available

WARRANTY / LISTING

- 5-Year Standard Warranty
LED lumen Maintenance: L70> 78,000 Operation Hours@55°C

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ORDERING GUIDE - CLASS I DIVISION 2

EXAMPLE :PFX-9601-100W-A-D-30-D40-C

Model	Wattge selectable	Size	Dimming	Color Temperature	Beam Angle	Long Glass Cover
PFX-9601 Explosion Proof Light	100W 60W/80W/100W	A	D Dimmable	30 3000K	D40 40°	C Long glass Cover
	60W 20W/40W/60W	A2		N Non-Dimmable	40 4000K	
	200W 120W/150W/180W/200W	A3	50 5000K		D90 90°	
	400W 250W/300W/400W	A4	65 6500K	D120 120°	Blank No Glass Cover	

ORDERING GUIDE - FOR ZONE 2/21/22

EXAMPLE :PFX-9601-100W-A-30-D40

Model	Wattge selectable	Size	Color Temperature	Beam Angle
PFX-9601 Explosion Proof Light	100W 80W/100W	A	30 3000K	D40 40°
	60W 20W/40W/60W	A2	40 4000K	D60 60°
	200W 120W/150W/180W/200W	A3	50 5000K	D90 90°
	400W 250W/300W	A4	65 6500K	D120 120°

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TECHNICAL PARAMETER- CLASS I DIVISION 2

ELECTRICAL DATA

Specification	PFX-9601-20W A2YZDA	PFX-9601-40W A2YZDA	PFX-9601-60W A2YZDA	PFX-9601-60W AYZDA	PFX-9601-80W AYZDA	PFX-9601-100W AYZDA
Rated Power	20W	40W	60W	60W	80W	100W
Input Voltage	100-277/200-480VAC					
Input Frequency	50/60Hz					
Power Factor	> 0.95					
Emergency Function	No emergency function			No emergency function		

OPTICAL

Specification	PFX-9601-20W A2YZDA	PFX-9601-40W A2YZDA	PFX-9601-60W A2YZDA	PFX-9601-60W AYZDA	PFX-9601-80W AYZDA	PFX-9601-100W AYZDA
Lumen Output	2800lm	5600lm	8400lm	8400lm	11200lm	14000lm
Lumens Per Watt	140lm/W					
CCT	3000K-6500K					
CRI	> 70					
Beam Angle	40°/60°/90°/120°					
Dimming	0-10V dimming optional					

MECHANICAL

Specification	PFX-9601-20W A2YZDA	PFX-9601-40W A2YZDA	PFX-9601-60W A2YZDA	PFX-9601-60W AYZDA	PFX-9601-80W AYZDA	PFX-9601-100W AYZDA
Housing Material	Die-cast aluminum					
Lens	Tempered glass & PC					
Hardware	Stainless steel					
Visor	Available					
Fixture Color	Gray RAL7040 (Standard)					
Protection	IP66/IP67/IK08 (glass cover)/IK10 (with wire guard)					
Mounting	Ceiling, Wall, Hook, Trunnion, Pole, Stanchion					
Cable Entries	Side: 3/4" NPT (standard); M20, M25, 1/2" NPT (optional) Top: 3/4" NPT (standard)					

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TECHNICAL PARAMERER- CLASS I DIVISION 2

ELECTRICAL DATA

Specification	PFX-9601 120W-A3YZDA	PFX-9601 150W-A3YZDA	PFX-9601 180W-A3YZDA	PFX-9601 200W-A3YZDA	PFX-9601 250W-A4YZDA	PFX-9601 300W-A4YZDA	PFX-9601 400W-A4YZDA
Rated Power	120W	150W	180W	200W	250W	300W	400W
Input Voltage	120-277/277-480VAC						
Input Frequency	50/60Hz						
Power Factor	> 0.95						
Emergency Function	Optional (1.5 hours)	No emergency function			No emergency function		

OPTICAL

Specification	PFX-9601 120W-A3YZDA	PFX-9601 150W-A3YZDA	PFX-9601 180W-A3YZDA	PFX-9601 200W-A3YZDA	PFX-9601 250W-A4YZDA	PFX-9601 300W-A4YZDA	PFX-9601 400W-A4YZDA
Lumen Output	16800lm	21000lm	25200lm	28000lm	35000lm	42000lm	56000lm
Lumens Per Watt	140lm/W						
CCT	3000K-6500K						
CRI	> 70						
Beam Angle	40°/60°/90°/120°						
Dimming	0-10V dimmin optional						

MECHANICAL

Specification	PFX-9601 120W-A3YZDA	PFX-9601 150W-A3YZDA	PFX-9601 180W-A3YZDA	PFX-9601 200W-A3YZDA	PFX-9601 250W-A4YZDA	PFX-9601 300W-A4YZDA	PFX-9601 400W-A4YZDA
Housing Material	Die-cast aluminum						
Lens	Tempered glass & PC						
Hardware	Stainless steel						
Fixture Color	Gray RAL7040 (Standard)						
Protection	IP66/IP67/IK08 (glass cover)/IK10 (with wire guard)						
Mounting	Ceiling, Wall, Hook, Pole, Stanchion						
Cable Entries	Side: 3/4" NPT (standard); M20, M25, 1/2" NPT (optional) Top: 3/4" NPT (standard)						

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AMBIENT TEMPERATURE

-40°C to +40°C (-40°F to +104°F)	Models A, 20-120W
-40°C to +40°C (-40°F to +104°F)	Models A, 20-100W, Class I Division 2 Group A, B, C, D
-40°C to +40°C (-40°F to +104°F)	Models A2, 20-60W
-40°C to +55°C (-40°F to +131°F)	Models A3, 20-200W
-40°C to +50°C (-40°F to +122°F)	Models A4, 20-300W
-40°C to +40°C (-40°F to +104°F)	Models A4, 20-400W

TECHNICAL PARAMERER- FOR ZONE 2/21/22

ELECTRICAL DATA

Specification	PFX-9601-20W A2N**D**	PFX-9601-40W A2N**D**	PFX-9601-60W A2N**D**	PFX-9601-60W AN**D**	PFX-9601-80W AN**D**	PFX-9601-100W AN**D**
Rated Power	20W	40W	60W	60W	80W	100W
Input Voltage	100-277VAC					
Input Frequency	50/60Hz					
Power Factor	> 0.95					
Emergency Function	No emergency function			No emergency function		

OPTICAL

Specification	PFX-9601-20W A2N**D**	PFX-9601-40W A2N**D**	PFX-9601-60W A2N**D**	PFX-9601-60W AN**D**	PFX-9601-80W AN**D**	PFX-9601-100W AN**D**
Lumen Output	2800lm	5600lm	8400lm	8400lm	11200lm	14000lm
Lumens Per Watt	140lm/W					
CCT	3000K-6500K					
CRI	> 70					
Beam Angle	40°/60°/90°/120°					
Dimming	0-10V dimmin optional					

ENVIORNMENTAL

Specification	PFX-9601-20W A2N**D**	PFX-9601-40W A2N**D**	PFX-9601-60W A2N**D**	PFX-9601-60W AN**D**	PFX-9601-80W AN**D**	PFX-9601-100W AN**D**
Ambient Temperature	T3: -40°C to +55°C (-40°F to +131°F)					

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TECHNICAL PARAMERER- FOR ZONE 2/21/22

MECHANICAL

Specification	PFX-9601-20W A2N**D**	PFX-9601-40W A2N**D**	PFX-9601-60W A2N**D**	PFX-9601-60W AN**D**	PFX-9601-80W AN**D**	PFX-9601-100W AN**D**
Housing Material	Die-cast aluminum					
Fixture Color	Gray RAL7040 (Standard)					
Lens	Tempered glass & PC					
Hardware	Stainless steel					
Protection	IP66/IP67/IK08 (glass cover)/IK10 (with wire guard)					
Mounting	Ceiling, Wall, Hook, Pole, Stanchion					
Cable Entries	Side: M20 (standard); M25, 1/2" NPT, 3/4" NPT (optional) Top: 3/4" NPT (standard)					

TECHNICAL PARAMERER- FOR ZONE 2/21/22

ELECTRICAL DATA

Specification	PFX-9601-120W A3N**D**	PFX-9601-150W A3N**D**	PFX-9601-180W A3N**D**	PFX-9601-200W A3N**D**	PFX-9601-250W A4N**D**	PFX-9601-300W A4N**D**
Rated Power	120W	150W	180W	200W	250W	300W
Input Voltage	100-277VAC					
Input Frequency	50/60Hz					
Power Factor	> 0.95					
Emergency Function	Optional (3 hours)				No emergency function	

OPTICAL

Specification	PFX-9601 120W-A3N**D**	PFX-9601 150W-A3N**D**	PFX-9601 180W-A3N**D**	PFX-9601 200W-A3N**D**	PFX-9601 250W-A4N**D**	PFX-9601 300W-A4N**D**
Lumen Output	16800lm	21000lm	25200lm	28000lm	35000lm	42000lm
Lumens Per Watt	140lm/W					
CCT	3000K-6500K					
CRI	> 70					
Beam Angle	40°/60°/90°/120°					
Dimming	0-10V dimmin optional					

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ENVIRONMENTAL

Specification	PFX-9601-120W A3N**D**	PFX-9601-150W A3N**D**	PFX-9601-180W A3N**D**	PFX-9601-200W A3N**D**	PFX-9601-250W A4N**D**	PFX-9601-300W A4N**D**
Ambient Temperature	T3: -40°C to +55°C (-40°F to +131°F)					

MECHANICAL

Specification	PFX-9601-120W A3N**D**	PFX-9601-150W A3N**D**	PFX-9601-180W A3N**D**	PFX-9601-200W A3N**D**	PFX-9601-250W A4N**D**	PFX-9601-300W A4N**D**
Housing Material	Die-cast aluminum					
Fixture Color	Gray RAL7040 (Standard)					
Lens	Tempered glass & PC					
Hardware	Stainless steel					
Protection	IP66/IP67/IK08 (glass cover)/IK10 (with wire guard)					
Mounting	Ceiling, Wall, Hook, Pole, Stanchion					
Cable Entries	Side: M20 (standard); M25, 1/2" NPT, 3/4" NPT (optional) Top: 3/4" NPT (standard)					

PACKING INFORMATION

Model	Net Weight*	Gross Weight*	Quantity/ Carton	Package Dimensions (LxWxH)
A2	4.15 kg/9.15 lb	5.30 kg/11.68 lb	1 pc	365x270x305 mm/14.37x10.63x12.01inch
A	6.95 kg/15.32 lb	9.50 kg/20.94 lb	1 pc	450x340x370mm/17.72x13.39x14.57inch
A3	8.30 kg/18.30 lb	11.35 kg/25.02 lb	1 pc	470x370x300mm/18.50x14.57x11.81inch
A4	15.1 kg/33.29 lb	18.55 kg/40.90 lb	1 pc	520x490x380mm/20.47x19.29x14.96inch

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

Disclaimer:

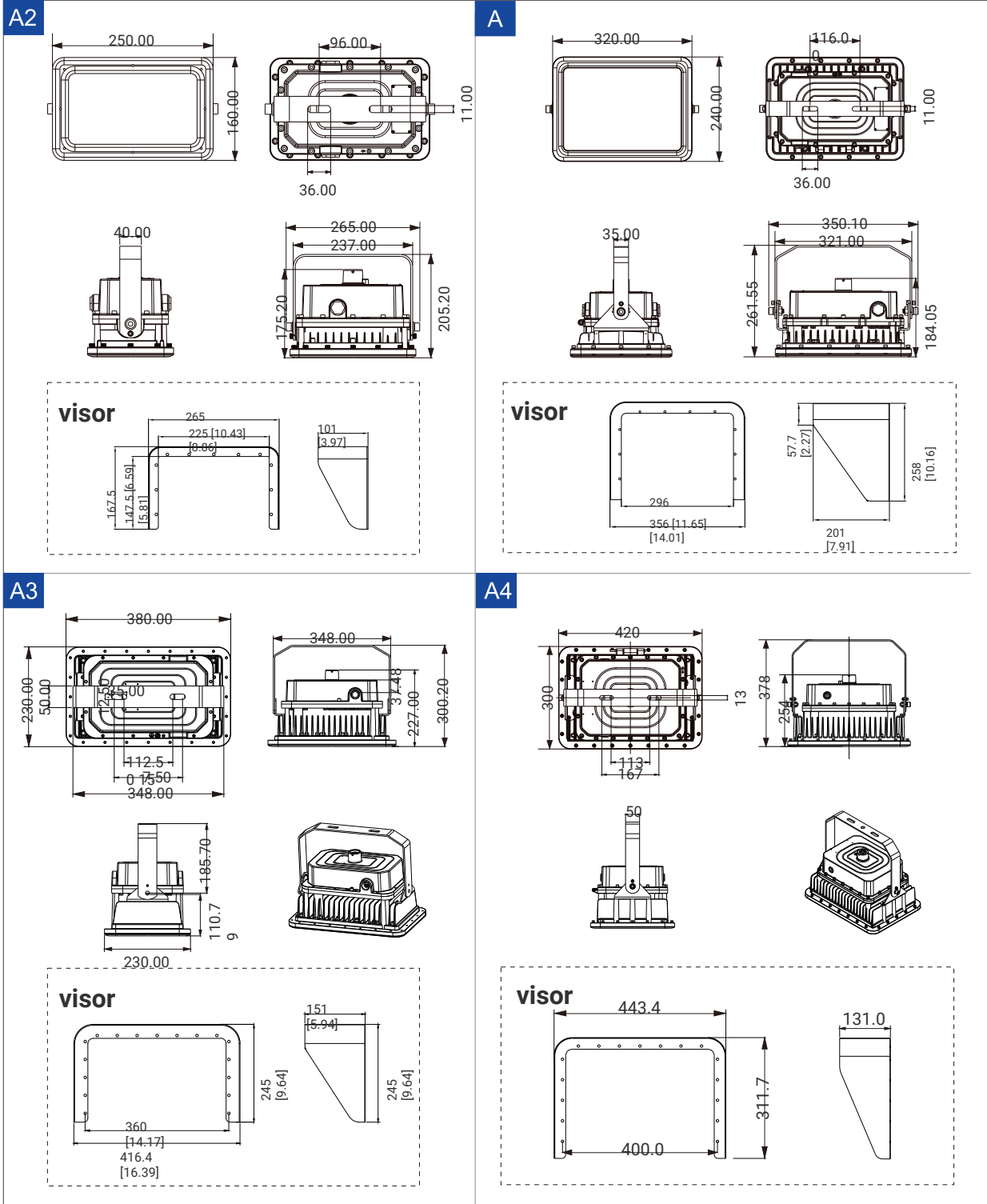
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PRODUCT DIMENSIONS



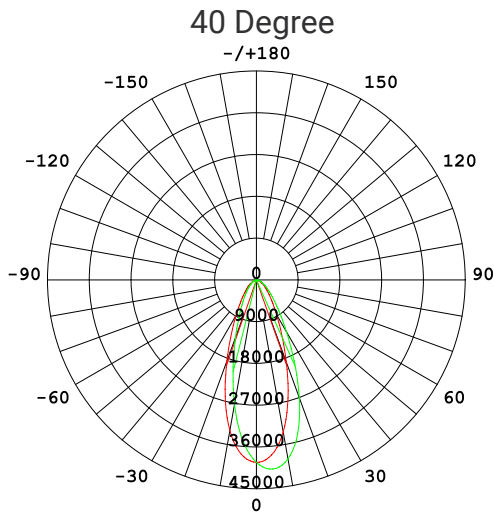
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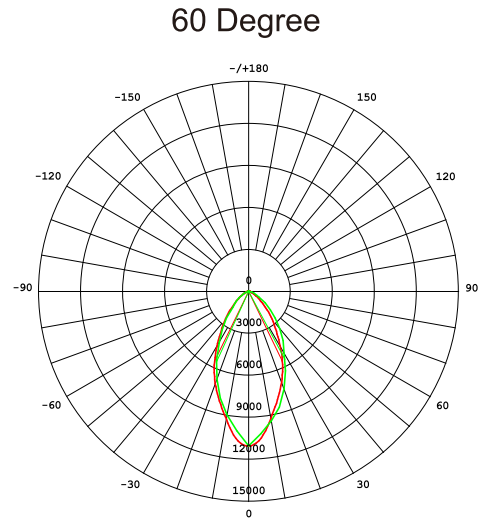
PHOTOMETRIC



AVERAGE BEAM ANGLE(50%):38.6 DEG

UNIT:cd

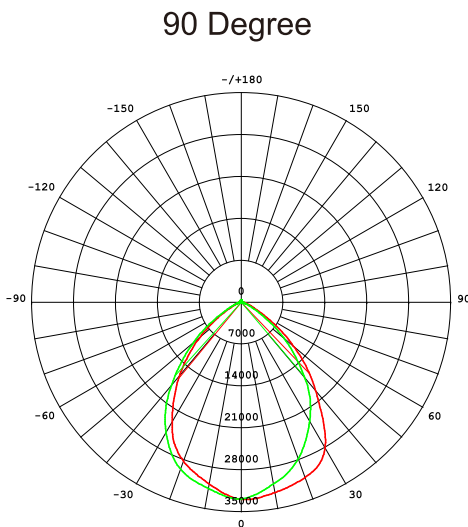
- C0/180,38.7°
- C90/270,38.5°



AVERAGE BEAM ANGLE(50%):52.5 DEG

UNIT:cd

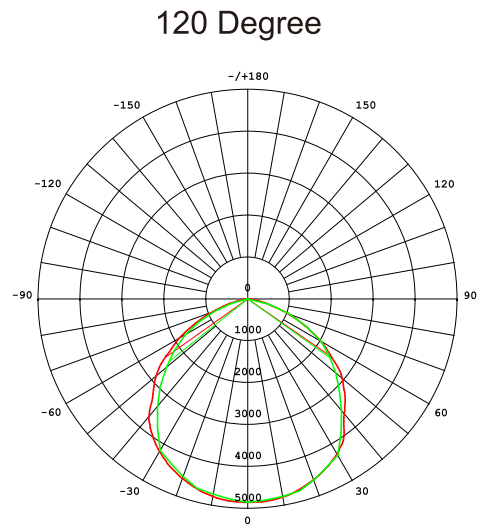
- V 0.0DEG PLAN,52.3
- H 0.0DEG PLAN,52.7



AVERAGE BEAM ANGLE(50%):82.8 DEG

UNIT:cd

- V 0.0DEG PLAN,83.2
- H 0.0DEG PLAN,82.4



AVERAGE BEAM ANGLE(50%):107.8 DEG

UNIT:cd

- V 0.0DEG PLAN,109.9
- H 0.0DEG PLAN,105.8

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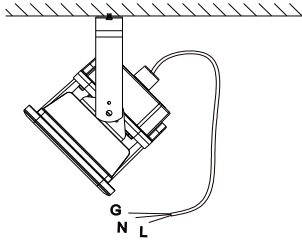
PFX-9601

A Series (Zone 2 & Class I Divison 2)



MOUNTING METHODS AND ACCESSORIES

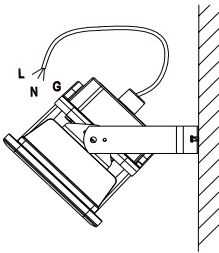
• Option 1: Ceiling Mounting



• Accessory



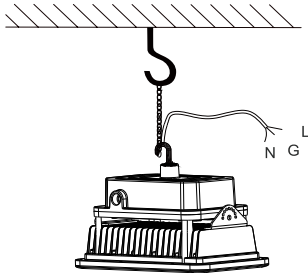
• Option 2: Wall Mounting



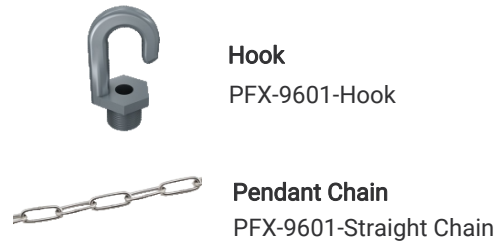
• Accessory



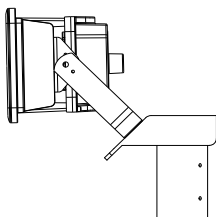
• Option 3: Hook Mounting



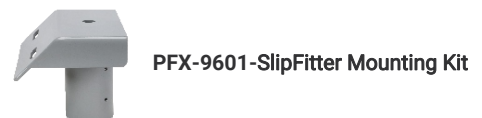
• Accessories



• Option 4: Trunnion Mounting (Only for A and A2)



• Accessory



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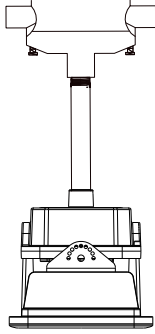
PFX-9601

A Series (Zone 2 & Class I Divison 2)



MOUNTING METHODS AND ACCESSORIES

• Option 5: Pole Mounting (Vertical)



• Accessories

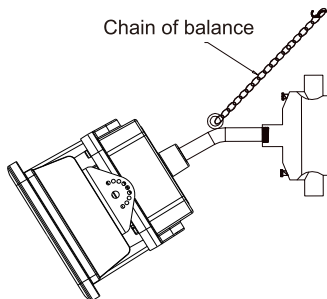


Junction Box
PFX-9601-HD51-KB1



Pole
PFX-9601-Straight Pipe

• Option 6: Pole Mounting (Non-vertical)



• Accessories



Junction Box
PFX-9601-HD51-KB1

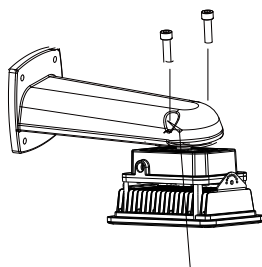


Pole
PFX-9601-Bended Pipe



Pendant Chain
PFX-9601-Straight Chain

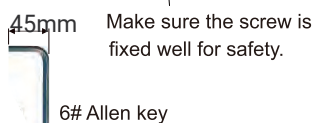
• Option 7: Stanchion Mounting on the Wall



• Accessory



Stanchion Arm
PFX-9601-MArm



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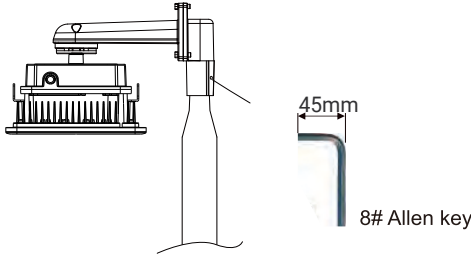
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A Series (Zone 2 & Class I Divison 2)



MOUNTING METHODS AND ACCESSORIES

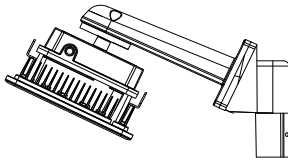
- Option 8: Stanchion Mounting on the Pole (90 Degree)



- Accessories



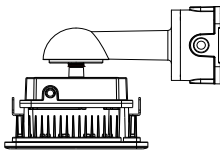
- Option 9: Stanchion Mounting on the Pole (25 Degree)



- Accessories



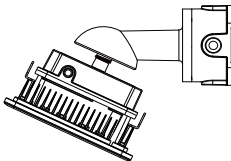
- Option 10: Wall Mounting with Junction Box (90 Degree)



- Accessory



- Option 11: Wall Mounting with Junction Box (25 Degree)



- Accessory



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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

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