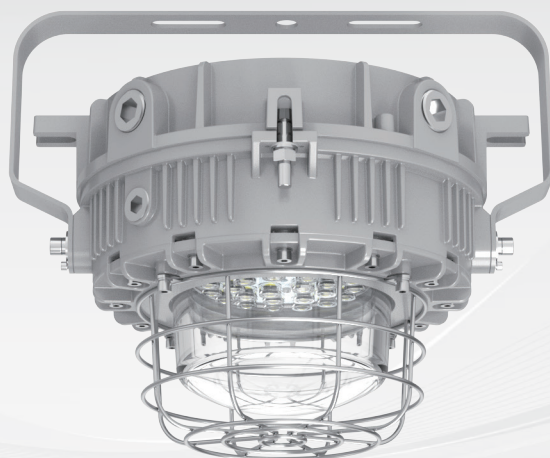


HAZARDOUS LOCATION LED LUMINAIRE EX-Q1A Spec Sheet



Q1A

EX-Q1A Spec Sheet

The Q1A Series LED luminaire is the ideal choice for 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. Featuring various shapes of driver box cover, this series is designed to meet different requirements of installations.

Compliance

- UL 844 Hazardous Locations
Class I Division 2, Group A, B, C and D
Class II Division 1, Group E, F and G
Class II Division 2, Group F and G
Class III
- UL 1598
- UL1598A
- DNV
- ABS
- Vibration 3G
- NEMA Type 4X
- IP66
- IK08 (without wire guard)
- IK10 (with wire guard)

Application

- Heavy Industrials Storage Facility
- Paper Mills
- Chemical Processing Facility
- Power Plants
- Petrochemical Processing Facility
- Offshore Environments
- Wastewater Treatment Plants
- Food and Alcohol industry

HAZARDOUS LOCATION LED LUMINAIRE EX-Q1A Spec Sheet

Benefits & Features



- Mounting brackets and all exposed hardware accessories are with stainless steel
- The body is made of powder-coated die-cast aluminum, providing excellent corrosion resistance
- The driver cover is compatible with branded ex-proof lighting fixtures and can also be used for retrofit applications
- Different installation accessories optional
- Spherical glass/PC lens, Convex glass, Drop glass/PC lens with wire guard optional

Key Features and Information

• Electrical

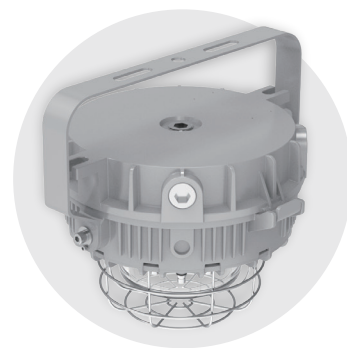
Model	EX-xxxW Q1A
Selectable Power	40W/50W/60W
Power Model	Q1A: SS-75EP-M54BH for 120-277/347VAC; VA-65V-054B for 277-480VAC;
Input Voltage	120-277VAC or 277-480VAC
Input Frequency	50/60Hz
Power Factor @120V	> 0.95
Optional Emergency Function	Min. 90 mins (Contact sales for EM options)
Service Life	Up to 50,000 hours
Salt Spray	500Hours
Dimming	Driver includes dimming control wiring for 1-10V dimming systems. Requires separate 1-10V DC dimming circuit.



HAZARDOUS LOCATION LED LUMINAIRE EX-Q1A Spec Sheet

• Optical

Model	EX-xxxW Q1A
Selectable Power	40W/50W/60W
Lumens Per Watt	150lm/W
Lumen Output	6000-9000lm
Selectable CCT	4000K/5000K/6500K
CRI	>70
Beam Angle	120°
LED	Long-life, high-efficacy, discrete, surface-mount 2835 LEDs 100,000-Hour LED lifespan based on IES LM-80 results and TM-21



(Note: Refer to the table of testing data on page 4.)

• Mechanical

Model	EX-xxxW Q1A
Housing Material	Die-casting aluminum
Lens Material	Globe glass/PC lens, Convex glass/PC lens, Drop glass/PC lens
Gasket Material	Silicone Rubber
Hardware	Stainless steel 304 (standard), SS 316 optional
Protection Rating	Ingress protection: IP66 Impact protection: IK10 (with wire guard)
Mounting Options	Ceiling Mount (Included); U bracket Mount (Included); Pendant Mount (Purchase separately)
Cable Entries	3/4" NPT (standard); 1/2" NPT
Warranty	5-year limited warranty for fixture

• Ambient Temperature

Model	Input Voltage	Power Model	Temperature Class
Q1A	120-277VAC	SS-75EP-M54BH	T4A:-40 C to +55 C (CIDII)
	277-480VAC	VA-65V-054B	T4A:-40 C to +55 C (CIDII)

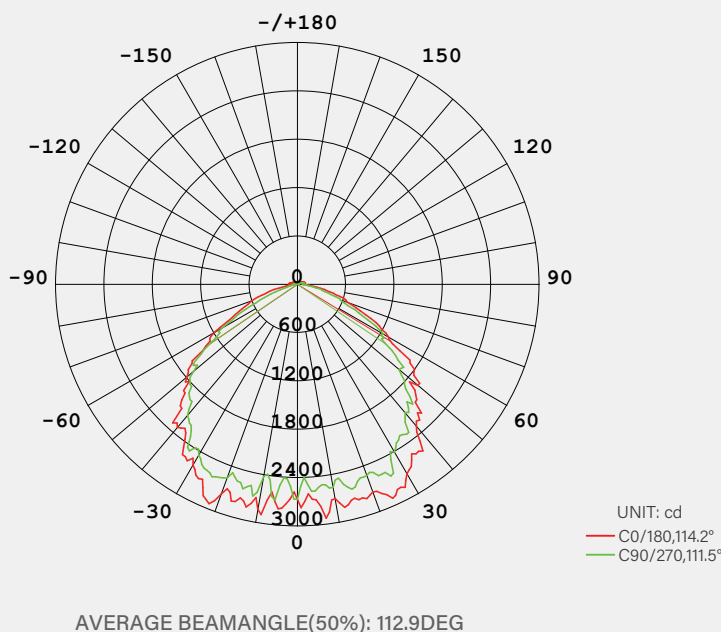
HAZARDOUS LOCATION LED LUMINAIRE EX-Q1A Spec Sheet

• **Electrical specification (actual measurement)**

Model	EX-60WQ1AD50D120ME75T								
Test Power	60W			50W			40W		
Test CCT (K)	6500	5000	4000	6500	5000	4000	6500	5000	4000
Lumens Per Watt (lm/W)	133.4	139.63	131.6	134.28	139.47	132.92	134.7	138.89	133.44
Lumen Output (lm)	8156	8249.6	7976.5	6859.1	6879.6	6717.6	5568.2	5609.3	5500.8
Beam Angle	112.9	112.6	111.6	112.9	112.7	112.9	110.6	112.7	112.6
CCT (K)	6139	4949	4095	6124	4942	4092	6107	4940	4087
CRI	72.6	73.7	73.4	72.6	73.6	73.4	72.6	73.6	73.4
Power Factor	0.9994	0.9994	0.9994	0.9988	0.9988	0.9988	0.9981	0.998	0.9981
Test Voltage	120VAC								
Test Power Model	SS-75EP-M54BH								

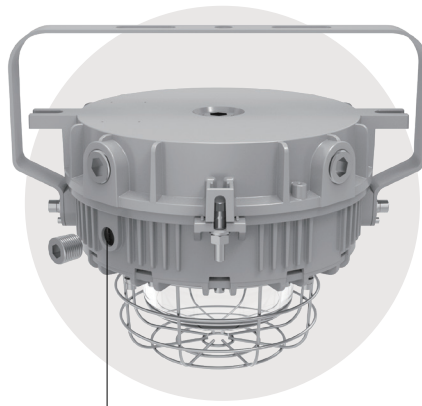
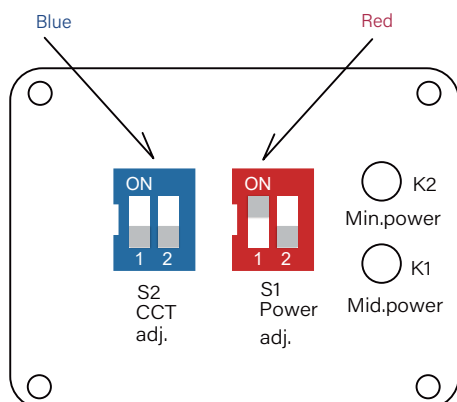
Photometric

• **120 Degree**



HAZARDOUS LOCATION LED LUMINAIRE EX-Q1A Spec Sheet

Power and CCT Selectable



Power and CCT Selectable



DIP switch

Operating Instructions

• S1 DIP switch - Red (S1 Power adj.)

The luminaire incorporates a dual-dial power configuration switch enabling three selectable output ratings. Factory default settings and power levels can be customized based on project requirements.

1. Maximum Output (100% nominal power)
Switch configuration: Dial 1 = OFF, Dial 2 = OFF;



Q1A: 60W

2. Medium Output (70%-90% of nominal power, depending on specification) Switch configuration: Dial 1 = ON, Dial 2 = OFF



Q1A: 50W

3. Minimum Output (50%-70% of nominal power, depending on specification) Switch configuration: Dial 1 = OFF, Dial 2 = ON



Q1A: 40W

• S2 DIP switch - Blue (S2 CCT adj.)

The luminaire incorporates a dual-dial power configuration switch enabling three preset color temperature options. The factory default setting can be customized according to order requirements.

1. Cool white, e.g. 6500K
Switch configuration: Dial 1 = OFF, Dial 2 = OFF



6500K

2. Neutral white, e.g. 5000K
Switch configuration: Dial 1 = ON, Dial 2 = OFF



5000K

3. Warm white, e.g. 4000K
Switch configuration: Dial 1 = ON, Dial 2 = ON

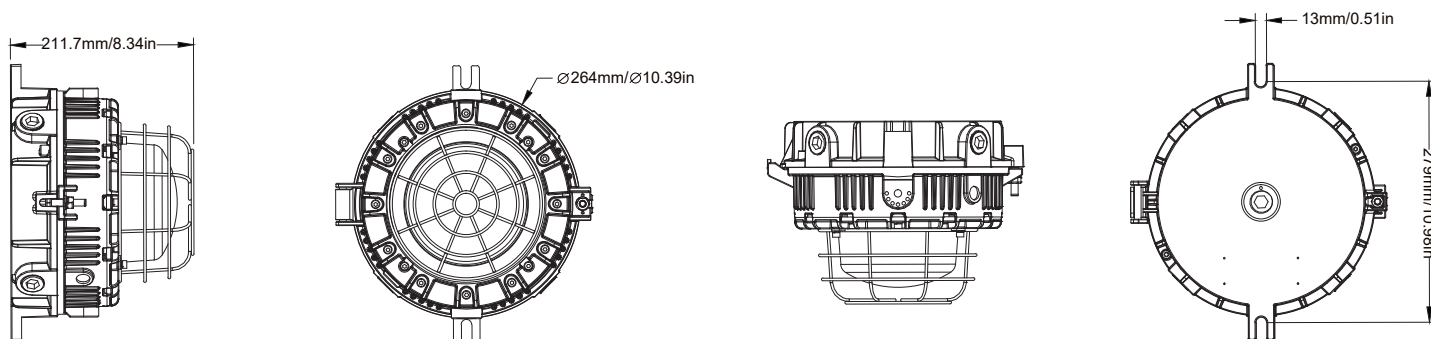


4000K

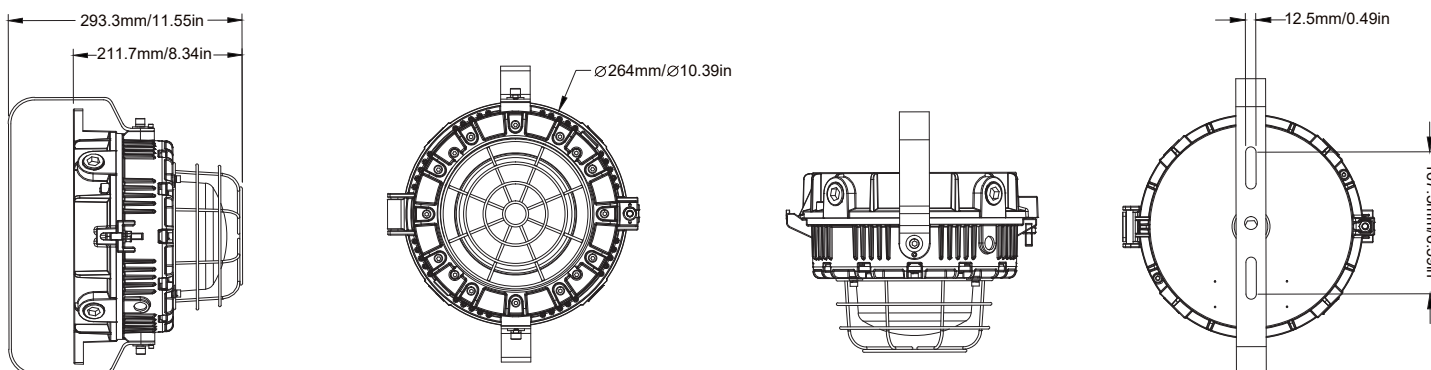
HAZARDOUS LOCATION LED LUMINAIRE EX-Q1A Spec Sheet

Product Dimensions Unit: mm[inch]

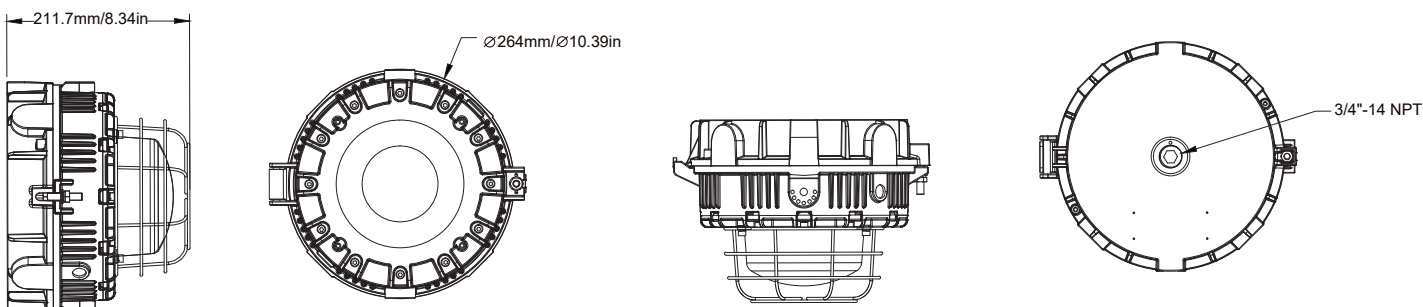
- Q1A with Lamp Enclosure Heatsink P, driver cover A1, wire guard, and Drop glass



- Q1A with Lamp Enclosure Heatsink P, driver cover A1 U bracket, wire guard, and Drop glass



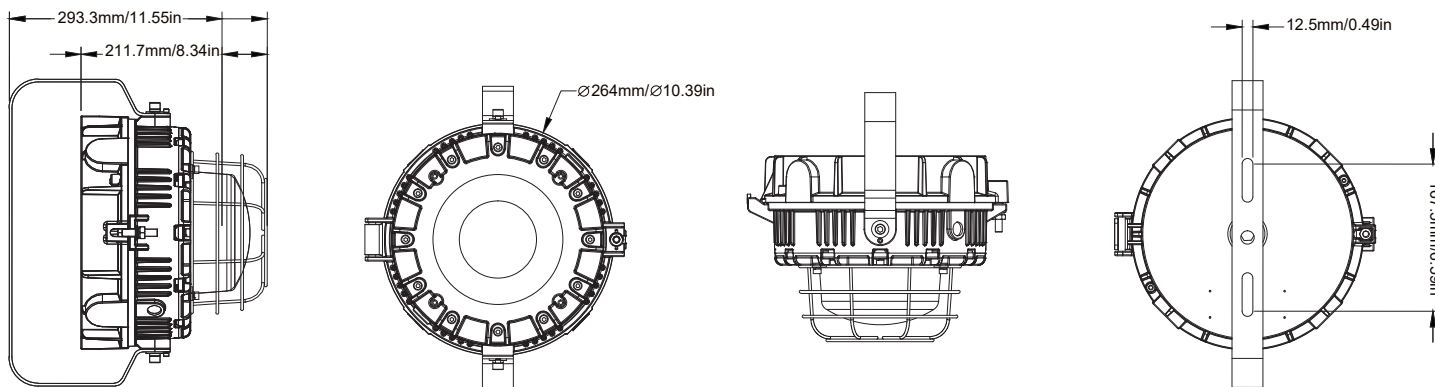
- Q1A with Lamp Enclosure Heatsink P, driver cover B1, wire guard, and Drop glass



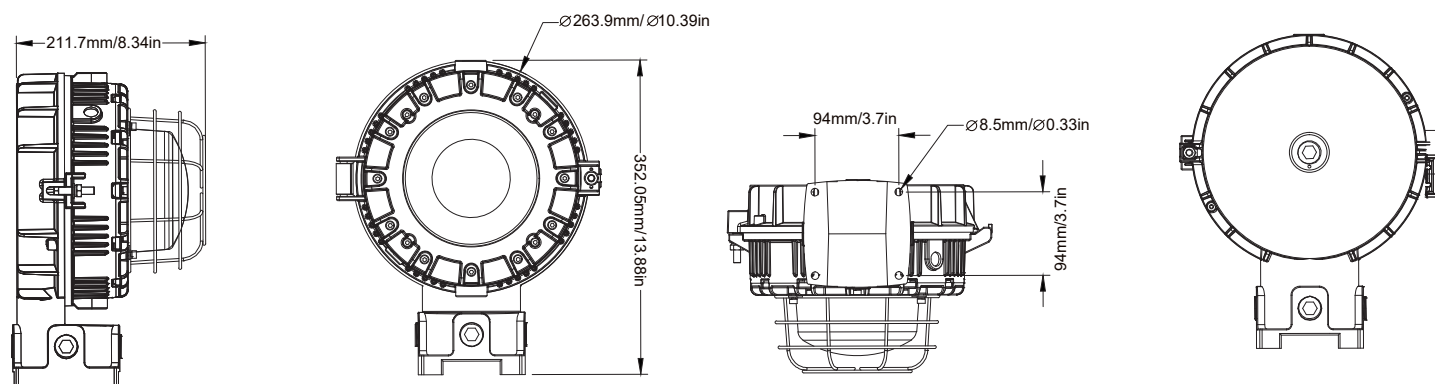
HAZARDOUS LOCATION LED LUMINAIRE EX-Q1A Spec Sheet

Product Dimensions Unit: mm[inch]

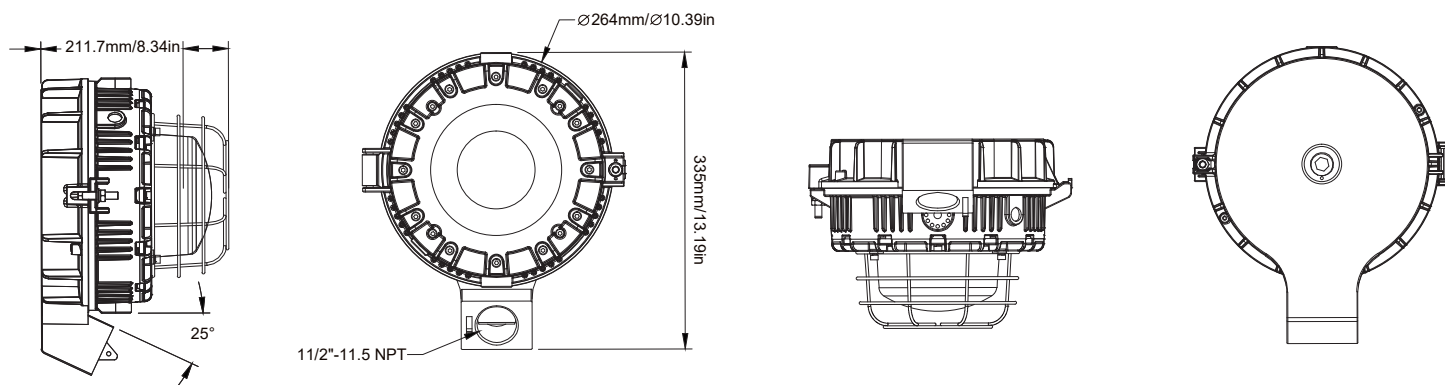
- Q1A with Lamp Enclosure Heatsink P, driver cover B1 U bracket, wire guard, and Drop glass



- Q1A with Lamp Enclosure Heatsink P, driver cover C1, wire guard, and Drop glass



- Q1A with Lamp Enclosure Heatsink P, driver cover D1, wire guard, and Drop glass



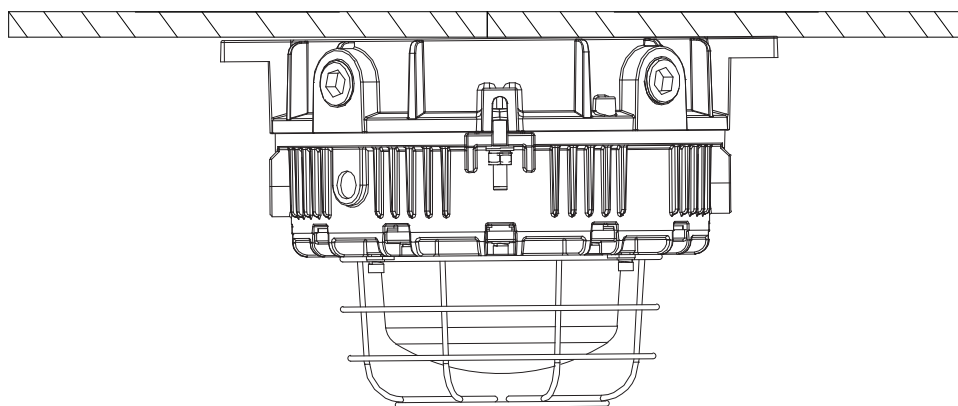
HAZARDOUS LOCATION LED LUMINAIRE EX-Q1A Spec Sheet

Packing Information

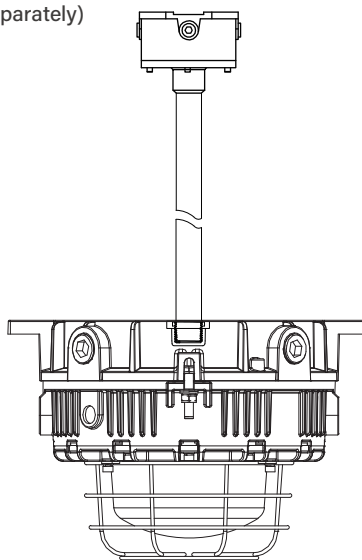
Model	Package Dimensions	Net Weight	Gross Weight	Quantity/Carton
Q1A	450x450x280mm/ 17.72x17.72x11.02inch	6.23 kg/13.74 lb	7.95 kg/17.53 lb	1 pc

Mounting Methods

- Option 1: Ceiling Mounting (Included)

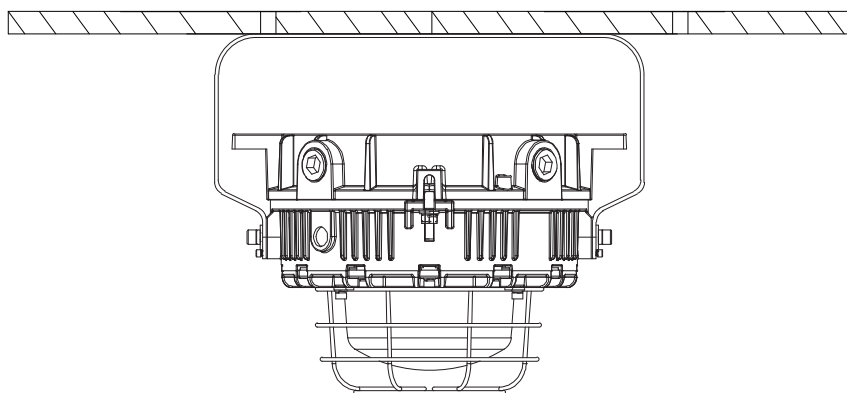


- Option 2: Pendant Mounting (Purchase separately)

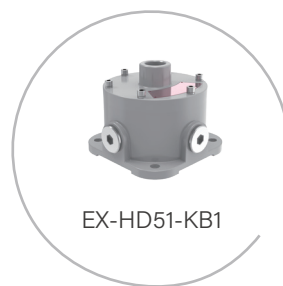
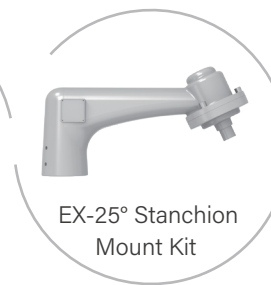
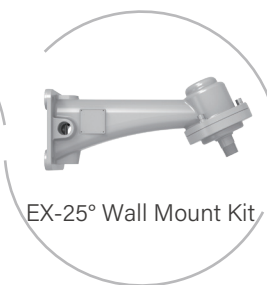
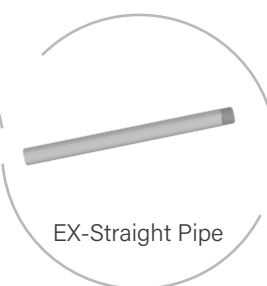
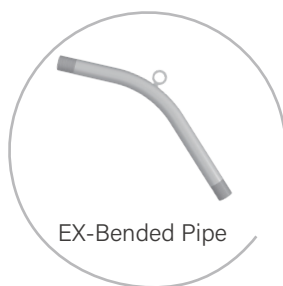


HAZARDOUS LOCATION LED LUMINAIRE EX-Q1A Spec Sheet

- Option 3: U-bracket Mounting (Included)



Accessories



HAZARDOUS LOCATION LED LUMINAIRE EX-Q1A Spec Sheet

Ordering Guide

