

INDUSTRIAL EXPLOSION-PROOF LIGHTING **& EQUIPMENTS CATALOGUE 2019-V1**

INDUSTRIAL EX-PROOF LIGHTING CATALOGUE









IWASAKI ELECTRIC EXPLOSION-PROOF LUMINAIRE



LEDIOC

Explosion-proof LED Luminaire for High Ceilings

For Indoor/Outdoor Use

Multiple Mount Type

Frost/Clear Glass

LED light fixture with built-in LED driver that can be installed at high ceiling.



(EPL Gb, Exd IIB + H,T5/T6, IP65)



Specification

Equivalent Replacement	Other Mounting Type	Color Temperature & CRI	Power Consumption	Model NO.
Metal halide lamp 360W	Direct Mount/ Pipe Suspension/ 40° Bracket/ Stanchion/ U-Bracket (Angle Adjustable) / Pole Mount		107.2 W (242V)	EXIL1102SA9F
Mercury lamp 400W		5000K (Neutral White), Ra80	58.6 W (242V)	EXIL1062SA9F
Mercury lamp 250W			35.4 W (242V)	EXIL1032SA9F

^{*}Above shown models are Direct Mount type. Other mounting types named differently with respective model, please contact local supplier for more info.

LEDIOC

Explosion-proof LED Floodlight

For Indoor/Outdoor Use

Adjustable Angle

LED light fixture with built-in LED driver & U-bracket that can change the illumination angle.



(EPL Gb, Exd IIB + H,T5/T6, IP65)



Specification

Equivalent Replacement	Product Feature	Color Temperature & CRI	Power Consumption	Model NO.
Metal halide lamp 360W			107.2 W (242V)	EXIL4102SA9
Mercury lamp 400W	Tooless Adjustable Illumination Angle	5000K (Neutral White), Ra80	58.6 W (242V)	EXIL4062SA9
Mercury lamp 250W			35.4 W (242V)	EXIL4032SA9

IWASAKI ELECTRIC EXPLOSION-PROOF LUMINAIRE



LEDIOC

Explosion-proof LED Linear Light

For Indoor/Outdoor Use

Multiple Mount Type

Equivalent to explosion-proof & increased safety fluorescent lamps.



(Exd IIB T6X, IP65)



Specification

Equivalent Replacement	Other Mounting Type	Color Temperature & CRI	Power Consumption	Model
Hf32W high output fluorescent x 1	Direct Mount/ Pipe Suspension/ 30° Bracket/ Pole Mount/ Special Direct Mount	5000K (Neutral White),	23.5 W (242V)	EXICL1021BSA9
Hf32W high output fluorescent x 2		Ra83	41.5 W (242V)	EXICL1041BSA9

^{*}Above shown models are Direct Mount type. Other mounting types named differently with respective model, please contact local supplier for more info.

LEDIOC

Explosion-proof Emergency Linear Light

For Indoor/Outdoor Use

Emergency Backup Battery

LED light fixture with built-in LED driver & back-up battery for emergency usage.



Comply to :



Specification

(Exd IIB T6, IP65)

Equivalent Replacement	Other Mounting Type	Color Temperature & CRI	Power Consumption	Model
Hf32W high output fluorescent x 1	Direct Mount/ Pipe Suspension/	5000K (Neutral White),	26.0 W (242V)	EXICLA1021SA9
Hf32W high output fluorescent x 2	30° Bracket	Ra83	44.6 W (242V)	EXICLA1041SA9

^{*}Above shown models are Direct Mount type. Other mounting types named differently with respective model, please contact local supplier for more info.

LEDIDC EXPLOSION-PROOF POWER DISTRIBUTION EQUIPMENT

Interlocked Outlet



30A
with an earth leakage
circuit breaker



100A
with a molded case
circuit breaker

100A
with an earth leakage
circuit breaker



DA Bell



Bell

Tumbler Switch



Single Unit



Double Unit



Triple Unit

Buzzer



Buzzer

Push Button Switch



Single Unit



Double Unit



Triple Unit

Junction Box



4-Way



Parallel 3-Way

Control Box (Wall Mount)



EXK-AB1315 with 5A Ammeter, ON-OFF Push Button



EXK-BP3314 ON-OFF Push Button, 100V Pilot Lamp Red. Green



EXK-AK5115 30/5A Ammeter, Cam Switch



EXK-ABP43315

20A Ammeter,
ON-OFF Push Button,
100V Red. Green



EXK-ABK53116 30/5A Ammeter, ON-OFF Push Button, Cam Switch



LEDioc EXR HAZARDOUS LOCATIONS LED LUMINAIRE







UL 844 UL 1598, UL1598A UL 8750





Hazardous Locations Application: 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 Division 1



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LEDioc EXR Hazardous Locations & Explosive Atmosphere (UL Standard)







Explosion-proof Compliance

- 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 Division 1

UL Compliance (NEC/CEC)

- UL844 Luminaire Used for Hazardous Location
- UL1598 Safety Luminaire
- UL1598A Marine Luminaire (Outside Type)
- UL8750 LED Equipment Safety
- CSA C22.2 No. 250.17, CSA C22.2 No. 250.0-08

Class I Locations

Locations where inflammable gases or vapors are or may be present in sufficient quantities to produce explosive or flammable mixtures.

Class I, Division 1 locations where hazardous atmosphere may be present during normal operations. It may be present continuously, intermittently, periodically or during normal repair or maintenance operations, or those areas where a breakdown in processing equipment releases hazardous vapors with the simultaneous failure of electrical equipment.

Class I, Division 2 locations where volatile flammable liquids or gases are handled, processed or used. Normally they will be confined within closed containers or in closed systems from which they can escape only in the case of rupture or deterioration of the containers or systems.

Class II Locations

Locations that are hazardous because of the presence of combustible dust

Class II, Division 1 include areas where combustible dust may be in suspension in the air under normal conditions in sufficient quantities to produce explosive or ignitable mixtures (Dust may be emitted into the air continuously, intermittently or periodically), or where failure or malfunction of equipment might cause a hazardous location to exist and provide an ignition source with the simultaneous failure of electrical equipment, included also locations in which combustible dust of an electrically conductive nature may be present.

Class II, Division 2 locations are those in which combustible dust will not normally be in suspension nor will normal operations put dust in suspension, but where accumulation of dust may interfere with heat dissipation from electrical equipment or where accumulations near electrical equipment may be ignited.

Class III Locations

Locations are those considered hazardous due to the presence of easily ignitable fibers of flyings, which are in quantities sufficient to produce ignitable mixtures.

Class III, Division 1 locations in which easily ignitable fibers or materials producing combustible flyings are handled, manufactured or used.

Class III, Division 2 locations where easily ignitable fibers are stored or handled.

LEDioc EXR Model Number & Ordering Description

Model Number Indication EXX 05 02 W L-21SN90 Mounting Part & Accessories Color Temperature: (L, W, N) Beam Angle: (W) Design Number (2 digit): (02, 03) Power Consumption (Wattage) (2 digit): (04, 05, 06, 07) Luminaire Type



LEDioc EXR Model Listing

Luminaire Type
EXX -
Explosion
Proof

Power Consumption
04 - 40W**
05 - 45W*
06 - 60W**
07 - 65W*

Design Number
02 - (100~277Vac)*
03 - (347~480Vac)**

Beam Angle	Color Temperature
W - /ide 110°	L - Light
	(3000K)
	W -
	White
	(4000K)
	N - Neutral White (5000K)

Mounting Parts & Accessories		
21JB	21SB	
Ceiling Mount Junction Box	Steel U-Bracket	
Junction Box	О-вгаскет	
21SN25	21SC	
Stanchion Mount	Safety Cable	
25°, NPT 1-1/4"		
22SN25	21WG	
Stanchion Mount	Wire Guard	
25°, NPT 1-1/2"		
21SN90	21DL	
Stanchion Mount	Tempered Glass	
90°, NPT 1-1/4"	Drop Lens	
22SN90	21GS25	
Stanchion Mount	Glare Shield 25°	
90°, NPT 1.50"		
21WL25	21GS90	
Wall Mount 25°	Glare Shield 90°	
vvan Woart 25	State Stilleta 30	
21WL90		
Wall Mount 90°		

- * Only both the 45W & 65W model input voltage are 100~277Vac (Design Number 02)
- ** Only both the 40W & 60W model input voltage are 347~480Vac (Design Number 03)

LEDioc EXR (40W ~ 65W)



Body: EXX0502, EXX0702, EXX0403, EXX0603 (Color: GREY)

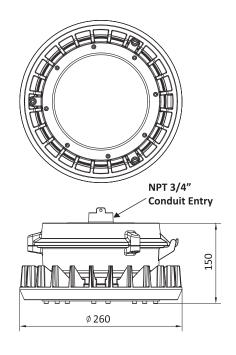
UL	UL844
Compliance	UL1598A, UL1598, UL8750

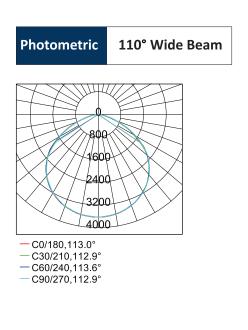
Temperature	Class I, Division 2: T4A	
Classification	Class II, Division1, Division2: T5	

Body Material	Die Cast Aluminum	
Lamp Cover	Tempered Glass	
Product Dimension (Ø x H)	ø 260 x 150 mm	
Carton Dimension (L x W x H)	340 x 310 x 205 mm	
Net Weight (kg)	4.2kg	
Gross Weight (kg)	4.9kg	
IP/IK Rating	IP66/IK08	
Surge Protection Rating	10kA	

Model Number	EXX0502WN	EXX0702WN	EXX0403WN	EXX0603WN
Input Voltage & Frequency	100-277VAC (50/60Hz)		347-480VAC (50/60Hz)	
Power Consumption	45W	65W	40W	60W
Luminaire Flux	6,750lm	9,750lm	6,000lm	9,000lm
Luminous Efficacy	150lm/W		150lm/W	
Color Temperature	5000K (Standard)		5000K (Standard)	
Color Rendering Index	>Ra70		>Ra70	
Beam Angle	110° (Wide Beam)			
Operating Temperature	-40°C ~ +55°C			-40°C ~ +45°C

[•] Color Temperature: 5000K (Neutral White - N) • Beam Angle: Wide - W (Only One Beam Angle)





LEDioc EXR Mounting Parts & Accessories



















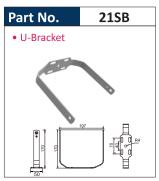




















SAFETY & ECOLOGY

Explosion test

[Explosion test chamber/gas mixing chamber]

The test is carried out by installing 2 units (A / B) of explosion test chamber/gas mixing chamber. Both of the 2 units of explosion test chamber are closed enclosures of the rapid opening and closing type, having excellent airtightness and pressure resistance strength, and the inner capacity of Chamber A is 0.94m³, and that of Chamber B is 0.28m³. The gas mixing chambers are of the type in which agitation and mixing are done by mean of rotating blades, of which inner volume is 0.67m³.

[Control/measuring devices]

Control and measurement of the explosion test equipment are done by means of a control panel, a measuring panel, a gas analyzer, an electromagnetic oscilloscope, etc. In addition to the main body of the analyzer for acetylene and ethylene which is installed in the main test room, theses devices are installed in this control room that is partitioned from the main test room with a partition.



Dust test

Dust test equipment is test equipment for checking the dust-proof performance of enclosures having dust-proof protection by powder filling and ordinary dust-proof and explosion-proof as well as enclosures of which degrees of protection are IP5X and IP6X.

The dust test equipment presented here consists of a twin type test chamber of 1.2m³ in effective inner volume and a control panel, and enables a series of operation and measurement that are required for checking dust-proof performance to be carried out fully automatically.

Environment test (thermostatic/hygrostatic/low temperature)

Environment test equipment enables a test to be carried out for a long period of time by setting the temperature to an arbitrary value between -10°C and +80°C, and by setting the humidity to an arbitrary value between 25% and 95%. The inside of the explosion-proof enclosure may become more humid than expected during use, and therefore the moisture resistant insulation performance and operation functions of its built-in devices need to be examined satisfactorily beforehand by means of test equipment like this.



LEDioc EXS LED FLOODLIGHT EXPLOSION-PROOF





II 2G Ex d IIB T5 Gb
II 2D Ex tb IIIC (T 95°C Max) Db IP66

Certification No.: IEP 19 ATEX 0671





ZONE 1 & 2 (EXPLOSIVE GAS)

ZONE 21 & 22 (COMBUSTIBLE DUST)

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LEDioc EXS Hazardous Zones & Equipment Categories (ATEX)



ATEX Compliance

- II 2G Ex d IIB T5 Gb
- II 2D Ex tb IIIC (T 95°C Max) Db IP66

Hazardous Zones Compliance

- Explosion gas Zone 1 & 2
- Combustible dust Zone 21 & 22

Temperature Classification

• T5 (100°C/212°F)

ATEX Certificate No.

• IEP 19 ATEX 0671

Gas, Vapours & Mists Zoning

Zone 0

A place in which an explosive atmosphere consisting of a mixture with air of dangerous substances in the form of gas, vapour or mist is present "continuously" or for "long periods" or "frequently".

Zone 1

A place in which an explosive atmosphere consisting of a mixture with air of dangerous substances in the form of gas, vapour or mist is likely to occur in normal operation occasionally.

Zone 2

A place in which an explosive atmosphere consisting of a mixture with air of dangerous substances in the form of gas, vapour or mist is not likely to occur in normal operation but, if it does occur, will persist for a short period only.

Dusts Zoning

Zone 20

A place in which an explosive atmosphere in the form of a cloud of combustible dust in air is present "continuously", or for "long periods" or "frequently".

Zone 21

A place in which an explosive atmosphere in the form of a cloud of combustible dust in air is likely to occur in normal operation occasionally.

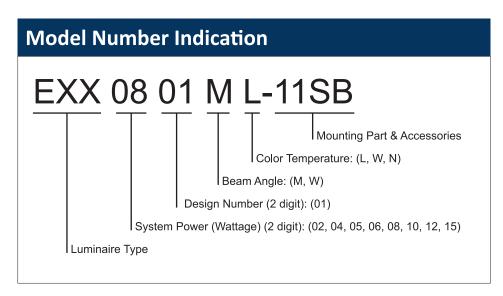
Zone 22

Zone 22 A place in which an explosive atmosphere in the form of a cloud of combustible dust in air is not likely to occur in normal operation but, if it does occur, will persist for a short period only.

Notes:

- 1. Layers, deposits and heaps of combustible dust must be considered as any other source which can form an explosive atmosphere.
- 2. "Normal operation" means the situation when installations are used within their design parameters.

LEDioc EXS Model Number & Ordering Description





LEDioc EXS Model Listing

Luminaire Type
EXX -
Explosion
Proof

Power Consumption			
02 - 20W	08 - 80W		
04 - 40W	10 - 100W		
05 - 50W	12 - 120W		
06 - 60W	15 - 150W		

Design
Number
01 - (100~277Vac)

Beam Angle		
M - Medium 60°		
W - Wide 110°		

Temperature
L-
Light
(3000K)
W -
White
(4000K)
N -
Neutral White
(5000K)

Color

Mounting Parts & Accessories			
11SN	12SB		
Pole Mount	U-Bracket		
Stanchion	(Size2)		
11SB	12WG		
U-Bracket	SUS 304		
(Size1)	Wire Guard (Size2)		
11WG	11SC		
SUS 304	SUS 304		
Wire Guard (Size1)	Safety Cable		

- 20W, 40W, 50W and 60W Models share same body fitting (Size 1)
- 80W, 100W, 120W and 150W Models share same body fitting (Size 2)
- The above purchase models do not include hazardous (explosion-proof) cable glands, sold separately upon request.

LEDioc EXS (20W ~ 60W)



Body: EXX0201, EXX0401, EXX0501, EXX0601 (Color: GREY)

Certification No.: IEP 19 ATEX 0671

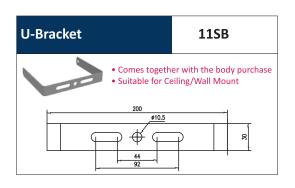
ATEX II 2G Ex d IIB T5 Gb Compliance II 2D Ex tb IIIC (T 95°C Max) Db IP66

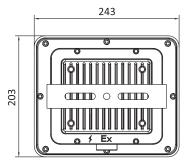
Input Voltage & Frequency	100-277Vac (50/60Hz)	
Body Material	Die Cast Aluminum	
Lamp Cover	Tempered Glass	
Product Dimension (L x W x H)	243 x 203 x 200 mm	
Carton Dimension (L x W x H)	290 x 282 x 190 mm	
Net Weight (kg)	4.6kg	
Gross Weight (kg)	6.0kg	
Operating Temperature	-30°C ~ + 50°C	
IP/IK Rating	IP66/IK08	
Surge Protection Rating	10kA	

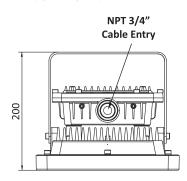
Model Number	EXX0201MN-11SB	EXX0201WN-11SB	EXX0401MN-11SB	EXX0401WN-11SB
Power Consumption	20W		40W	
Luminaire Flux	2,000lm		4,000lm	
Luminous Efficacy	100lm/W		100lm/W	
Color Temperature	5000K (Standard)		5000K (Standard)	
Color Rendering Index	>Ra70		>Ra70	
Beam Angle	60° (Medium Beam)	110° (Wide Beam)	60° (Medium Beam)	110° (Wide Beam)

Model Number	EXX0501MN-11SB	EXX0501WN-11SB	EXX0601MN-11SB	EXX0601WN-11SB
Power Consumption	50W		60W	
Luminaire Flux	5,000lm		6,000lm	
Luminous Efficacy	100lm/W		100lm/W	
Color Temperature	5000K (Standard)		5000К (S	tandard)
Color Rendering Index	>Ra70		>Ra	a70
Beam Angle	60° (Medium Beam)	110° (Wide Beam)	60° (Medium Beam)	110° (Wide Beam)

[•] Color Temperature: 5000K (Neutral White - N) • Beam Angle: Medium - M, Wide - W (Standard), Narrow - N (upon request)







LEDioc EXS (80W ~ 150W)



Body: EXX0801, EXX1001, EXX1201, EXX1501 (Color: GREY)

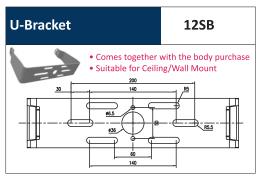
Certification No.: IEP 19 ATEX 0671 **ATEX** II 2G Ex d IIB T5 Gb Compliance II 2D Ex tb IIIC 95°C Max Db IP66

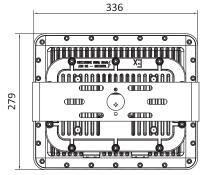
Input Voltage & Frequency	100-277Vac (50/60Hz)	
Body Material	Die Cast Aluminum	
Lamp Cover	Tempered Glass	
Product Dimension (L x W x H)	336 x 279 x 236 mm	
Carton Dimension (L x W x H)	410 x 370 x 234 mm	
Net Weight (kg)	12.2kg	
Gross Weight (kg)	13.5kg	
Operating Temperature	-30°C ~ + 50°C	
IP/IK Rating	IP66/IK08	
Surge Protection Rating	10kA	

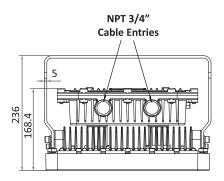
Model Number	EXX0801MN-12SB	EXX0801WN-12SB	EXX1001MN-12SB	EXX1001WN-12SB
Power Consumption	80W		100W	
Luminaire Flux	8,000lm		10,000lm	
Luminous Efficacy	100lm/W		100lm/W	
Color Temperature	5000K (Standard)		5000К (S	tandard)
Color Rendering Index	>Ra70		>Ra70	
Beam Angle	60° (Medium Beam)	110° (Wide Beam)	60° (Medium Beam)	110° (Wide Beam)

Model Number	EXX1201MN-12SB	EXX1201WN-12SB	EXX1501MN-12SB	EXX1501WN-12SB
Power Consumption	120W		150W	
Luminaire Flux	12,000lm		15,000lm	
Luminous Efficacy	100lm/W		100lm/W	
Color Temperature	5000K (Standard)		5000K (Standard)	
Color Rendering Index	>Ra70		>Ra70	
Beam Angle	60° (Medium Beam)	110° (Wide Beam)	60° (Medium Beam)	110° (Wide Beam)

[•] Color Temperature: 5000K (Neutral White - N) • Beam Angle: Medium - M, Wide - W (Standard), Narrow - N (upon request)

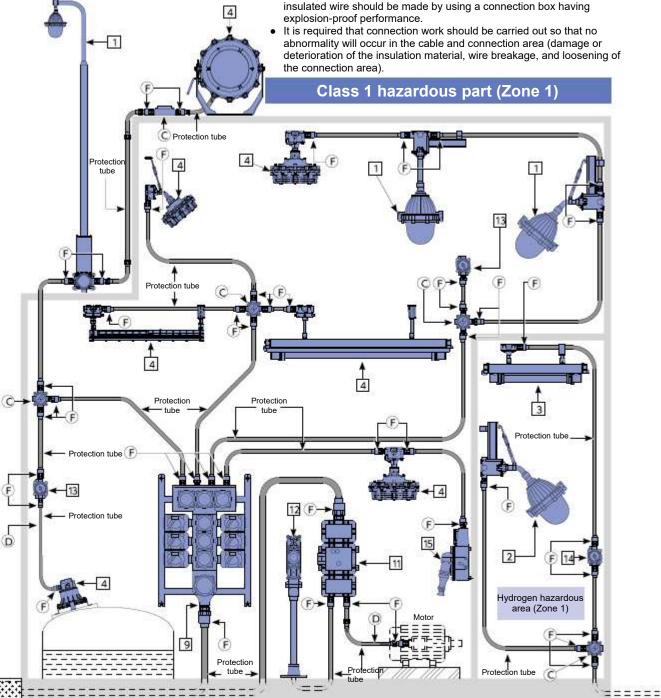






Gas vapor explosion-proof hazardous area [cables and wiring]

- The explosion-proof performance of cables and wiring depend on the type and internal construction of the cable, the method of it's laying and it's strength against external damage.
- The cable entries into electrical equipment shall be subject to conditions such that the port has been qualified by type approval, and only the entries supplied by the manufacturer of the electrical equipment can be used. Since the connection box is not subject to type approval, a cable gland that is fit for the explosion-proof performance of the connection box can be selected.
- It is required that connection of cables or connection of a cable and an insulated wire should be made by using a connection box having



- Although the apparatus shown here as examples have been described by using our products, they are not applicable to all the equipment that is commercially available or all the environmental conditions. When performing actual work, please read the instruction manuals of the equipment to be used, and the work should be performed by abiding by relevant laws and regulations. This example of installations is in accordance with the "USERS" GUIDELINES for Installations for Explosive Almospheres in General Industry "MIDSHT-RN-0.44 (2012). If there arises any difference from the contents of this example of installation due to revisions, etc. of the laws and ordinances, the work should be performed in accordance with the revised contents.

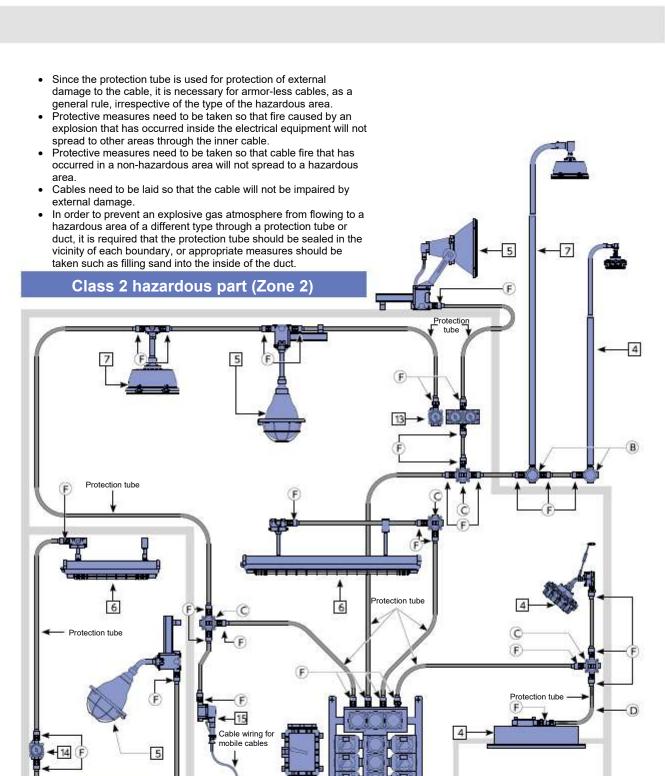
Accessories and cable glands for wiring

Symbol	Name	
(A)	Sealing fitting	
(B)	Junction box	
0	Connection box	
(D)	Flexible fitting	

Symbol	Name
(E)	Elbow
(F)	Cable gland

Apparatus shown as examples (apparatus according to the Recommended Practices for Explosion-Protected Electrical Installations in General Industries)

Symbol Name		Name
	1	HID luminaires (explosion-proof type)
2 H		HID luminaires ready for use in hydrogen gas atmospheres (explosion-proof type)
	3	Fluorescent lamp (explosion-proof type)
П	4	LED luminaires (explosion-proof type)



Apparatus shown as examples (apparatus according to the structural standard)

8

Symbol	Name
[5]	HID luminaires (increased safety explosion-proof type)
6	Hf fluorescent lamp (increased safety explosion-proof type)
(2)	LED luminaires (increased safety explosion-proof type)
10.1	Hand Jamp

Hydrogen hazardous area (Zone 2)

Protection tube

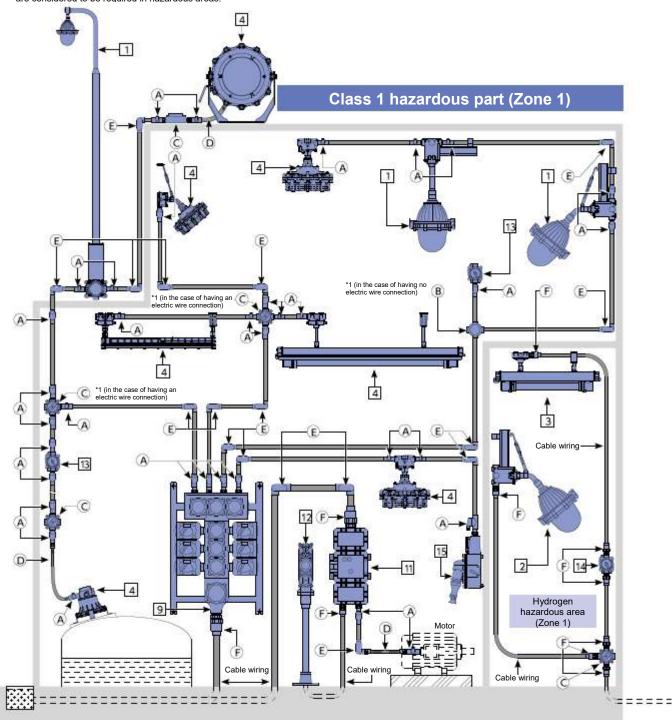
Symbol	Name	- 3
9	Explosion-proof distribution board	
100	Molded case circuit breaker	- 5
11	Electromagnetic switch	1
121	Control box	- 5

Symbol	Name	
B	Tumbler switch	
回	Tumbler switch (ready for use in hydrogen gas atmospheres)	33
151	Outlet	

Clean room

Gas vapor explosion-proof hazardous area [metallic conduit wiring]

- The way of thinking of metallic conduit wiring is to provide a connecting area or connection box to electrical equipment with explosion-proof performance that is fit for the explosion-proof construction of it's enclosure.
- The wiring materials to be used shall be only 600 V polyvinyl chloride insulated wires that are specified in JIS C 3307 or insulated wires equivalent thereto (in accordance with the provisions for metallic conduit wiring work that are specified in the Technical Standard for Electrical Equipment).
- The conduits to be used shall be the thick steel conduits with screw threads specified in JIS C 8305 (Rigid steel conduits).
- If the enclosure (terminal box) of electrical equipment to be built into a connection terminal area or a portion to be directly connected to the connection box is provided with measures that are fit for the enclosure's explosion-proof construction, then accessories for conduits having protection by flameproof enclosures or protection by increased safety need not be used necessarily for the midway conduit, on condition that the midway conduit has strength that can withstand external impact, performance for prevention of intrusion of foreign matter, functions as an equipotential grounding conductor, etc. that are considered to be required in hazardous areas.



- If work is done according to the "USERS' GUIDELINES for installations for Explosive Atmospheres in General Industry of the 2012 edition, for areas in the box where electrical connections are made, a "connection box" ac
- sealed.

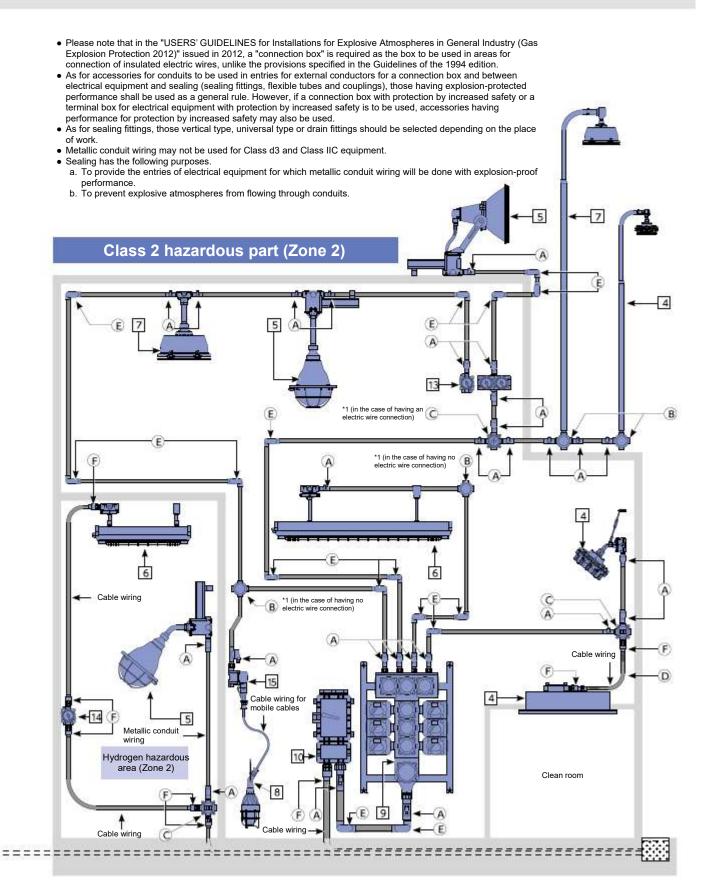
 Although the apparatus shown here as examples have been described by using our products, they are not applicable to all the equipment that is commercially available or all the environmental conditions. When performing actual work, please read the instruction manuals of the equipment to be used, and the work should be performed by abiding by relevant laws and regulations. This example of installation is in accordance with the "USERS" GUIDELINES for Installations for Explosive Almospheres in General Industry "NIOSH-TRNo 44 (2012). If there arises any difference from the contents of this example of installation for the revisions, etc. of the laws and ordinances, the work should be performed in accordance with the revised contents.

Accessories and cable glands for wiring

Symbol	Name	
(A)	Sealing fitting	
(B)	Junction box	
(0)	Connection box	
D :	Flexible fitting	-

Symbol	Name
(E)	Elbow
(E)	Cable gland

Symbol	Name
m	HID luminaires (explosion-proof type)
[2]	HID luminaires ready for use in hydrogen gas atmospheres (explosion-proof type)
[3]	Fluorescent lamp (explosion-proof type)
4	LED luminaires (explosion-proof type)



Apparatus shown as examples (apparatus according to the structural standard)

Symbol	Name	Symbol	Name
151	HID luminaires (increased safety explosion-proof type)	[9]	Explosion-proof distribution board
[6]	Hf fluorescent lamp (increased safety explosion-proof type)	20	Molded case circuit breaker
[7]	LED luminaires (increased safety explosion-proof type)	TI	Electromagnetic switch
[8]	Hand lamp	821	Control box

	Symbol	Name
	130	Tumbler switch
	10	Tumbler switch (ready for use in hydrogen gas atmospheres)
8	151	Outlet



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