

EXPLOSION PROOF EMERGENCY LIGHTING FIXTURE



ES02 Serie



IZUMI LED
TECHNOLOGY OF JAPAN

LED Explosion Proof Emergency Light and Exit Sign - ES02



Product Description

The IZUMI LED explosion-proof emergency luminaire is the answer. Designed for environments with risk of explosion, this luminaire combines the power and efficiency of LED technology with the safety and reliability you need in critical situations. Reliable emergency lighting: Provides automatic and powerful lighting in the event of a power failure, ensuring visibility and safety of people in emergency situations.

Features

- Two high-lumen spot lights can be adjusted in horizontal and vertical directions.
- Label content can be customized (various languages and exit signs are available).
- Low working wattage for energy saving.
- 3-hour emergency operation.
- Hinged-access door.
- Edge-lit sign.
- Can be used outdoors.
- Working temperature: -20°C to 60°C (-4°F to 140°F).

Additional Features:

- Pendant, wall and end bracket mounting options.
- Wide and narrow beam optics available.
- Long lifespan up to 50,000 hours.
- 5-year warranty.
- Provided with 3/4" NPT or M25 conduit hubs.

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Compliance

- ⦿ ATEX Marking
 - ⦿  II 2 G Ex db IIB+H T6 Gb 2
 - ⦿  II 2 D Ex tb IIIC T70°C Db IP66
- ⦿ IECEx Marking
 - ⦿ Ex db IIB+H T6 Gb
 - ⦿ Ex tb IIIC T70°C Db
- ⦿ IP66 / Wet Locations



Application

- ÇOil and gas industries
- ÇRefineries
- ÇStorage terminals
- ÇOil and gas distribution
- ÇChemical industries
Pharmaceutical
- ÇPaints and others



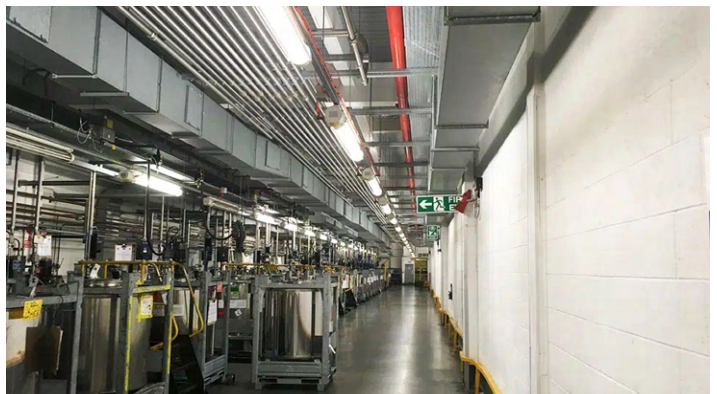
Standard Materials

- Housing: Die-casting aluminum
- Exit Sign: Tempered glass
- Hardware: Stainless steel
- Mounting Sling: Stainless steel
- Sign Panel: Glass

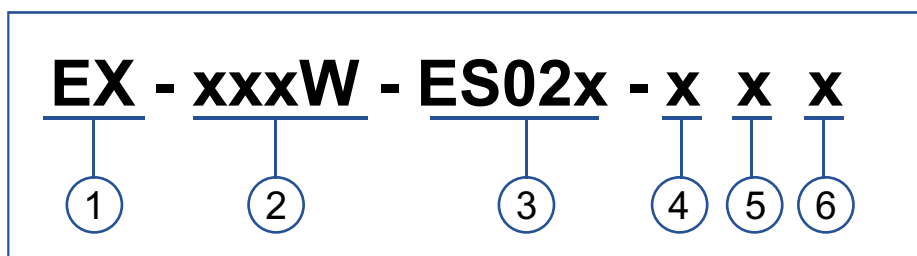


Warranty

5-year warranty.
LED lumen maintenance: L70> 50,000



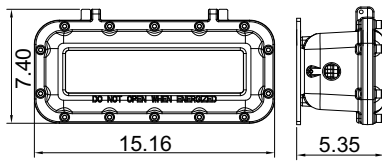
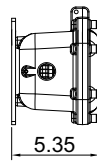
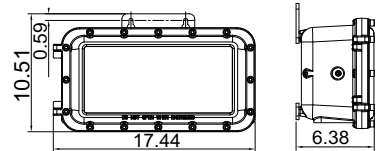
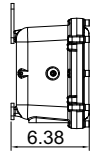
Technical Parameter



- ① **PRODUCT CATEGORY**
 - ◆ Explosion proof light
- ② **WATTAGE**
 - ◆ Max. 20W
- ③ **DESIGNATES TYPE SERIES**
 - ◆ Luminaire: ES02A1
 - ◆ Emergency Light: ES02A2, ES02B1, ES02C1, ES02D1
 - ◆ EXIT Sign: ES02B2, ES02B3
 - ◆ EXIT Sign and Emergency Light: ES02B4, ES02B5
 - ◆ Junction Box or Emergency Backup Box: ES02C2, ES02C3
- ④ **DIMMING OPTION**
 - ◆ N= Non-dimable
- ⑤ **CCT**
 - ◆ 30= 3000K
 - ◆ 35= 3500K
 - ◆ 40= 4000K
 - ◆ 45= 4500K
 - ◆ 50= 5000K
 - ◆ 55= 5500K
 - ◆ 60= 6000K
 - ◆ Only for ES02A1 and ES02A2
- ⑥ **BEAM ANGLE**
 - ◆ D15=15°, D20=20°, ..., D120=120°
 - ◆ Only for ES02A1 and ES02A2

Dimension & Technical Data

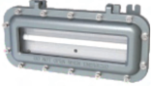
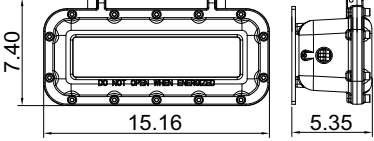
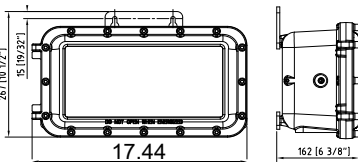
EX-ES02C2 and EX-ES02C3: Junction Box or Emergency Backup Box

			Type	Model Number	Input
 Small housing			Junction Box	EX-ES02C2	Max. AC800V Currency Cable Cross Section: 2.5mm² 24A Cable Cross Section: 4.0mm² 32A Cable Cross Section: 6.0mm² 41A Cable Cross Section: 10mm² 57A Cable Cross Section: 16mm² 76A Cable Cross Section: 35mm² 125A Cable Cross Section: 70mm² 192A Cable Cross Section: 240mm² 400A
			Battery Box	EX-ES02C3	
 Big housing			Junction Box	EX-ES02C2	
			Battery Box	EX-ES02C3	

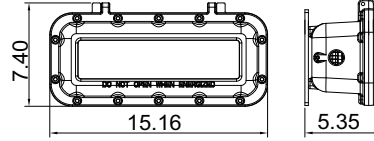
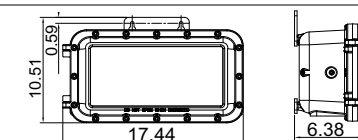
LED Explosion Proof Emergency Light and Exit Sign - ES02

Dimension & Technical Data

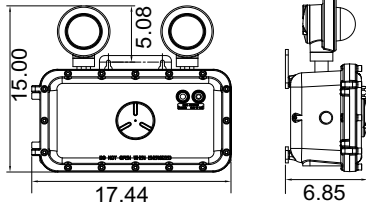
Type A1: Luminaire

	Housing	Model Number	Wattage	Lumens (lm)	Input
 Small housing		EX-5W ES02A1N50	5W	650	AC100-277V by driver and by IC
		EX-10W ES02A1N50	10W	1300	
		EX-1×8W ES02A1N40	8W	1040	
 Big housing		EX-15W ES02A1N40	15W	1950	DC12-48V
		EX-20W ES02A1N40	20W	2600	
		EX-2×8W ES02A1N40	16W	2080	
		EX-3×8W ES02A1N40	24W	3120	

Type A2: Luminaire + Emergency Backup Battery

	Housing	Model Number	Wattage	Lumens (lm)	Input
 Small housing		EX-5W ES02A2N50	5W	650	AC100-277V by driver and by IC
		EX-10W ES02A2N50	10W	1300	
		EX-1×8W ES02A2N40	8W	1040	
 Big housing		EX-15W ES02A2N40	15W	1950	DC12-48V
		EX-20W ES02A2N40	20W	2600	
		EX-2×8W ES02A2N40	16W	2080	
		EX-3×8W ES02A2N40	24W	3120	

Type B1: Emergency Backup + Luminaire (two pieces of spot light)

	Housing	Model Number	Wattage	Lumens (lm)	Input Voltage
 Big housing		EX-XXW ES02B1	7W-20W	910-2600	AC100-277V by driver and by IC Emergency backup for three hours

XX= Number "7~20", represents wattage.

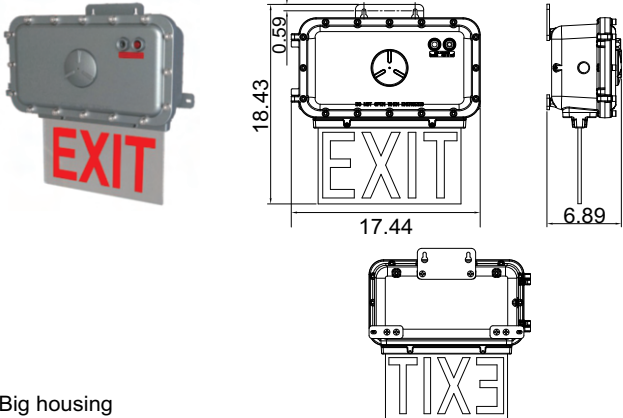
Type B2: Recessed EXIT Signs*

	Model Number	Wattage	Lumens (lm)	Input Voltage
 Big housing	EX-5W ES02B2A	5W	650	AC100-277V by driver and by IC DC12-48V
	EX-5W ES02B2B	5W		
	EX-5W ES02B2C	5W		
	EX-5W ES02B2D	5W		
	EX-5W ES02B2E	5W		
	EX-5W ES02B2F	5W		
	EX-5W ES02B2G	5W		
	EX-5W ES02B2H	5W		
	EX-5W ES02B2I	5W		
	EX-5W ES02B2J	5W		
	EX-5W ES02B2K	5W		

* Exit sign's content: please refer to page 5.

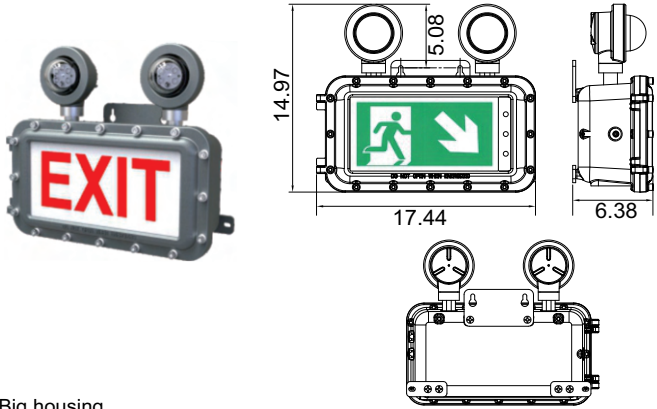
Dimension & Technical Data

Type B3: Pendant EXIT Sign* + Emergency Backup Battery

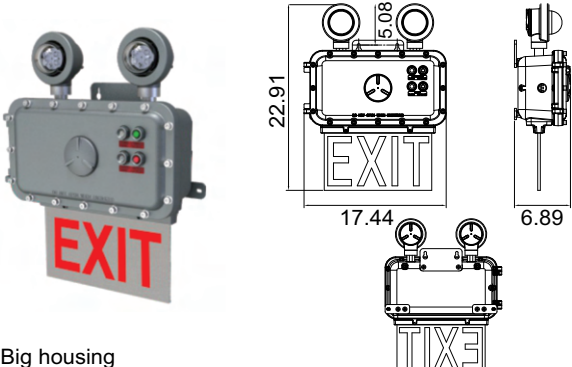
 Big housing	Model Number	Wattage	Input Voltage
	EX-5W ES02B3A	5W	AC100-277V by driver and by IC DC12-48V
	EX-5W ES02B3B	5W	
	EX-5W ES02B3C	5W	
	EX-5W ES02B3D	5W	
	EX-5W ES02B3E	5W	
	EX-5W ES02B3F	5W	
	EX-5W ES02B3G	5W	
	EX-5W ES02B3H	5W	
	EX-5W ES02B0I	5W	
	EX-5W ES02B3J	5W	
	EX-5W ES02B3K	5W	

* Exit sign's content: please refer to page 5.

Type B4: Recessed EXIT Sign* + Luminaire (two pieces of spot light) + Emergency Backup Battery

 Big housing	Model Number	Wattage	Input Voltage
	EX-7W ES02B4A	7W	AC100-277V by driver and by IC DC12-48V
	EX-7W ES02B4B	7W	
	EX-7W ES02B4C	7W	
	EX-7W ES02B4D	7W	
	EX-7W ES02B4E	7W	
	EX-7W ES02B4F	7W	
	EX-7W ES02B4G	7W	
	EX-7W ES02B4H	7W	
	EX-7W ES02B4I	7W	
	EX-7W ES02B4J	7W	
	EX-7W ES02B4K	7W	

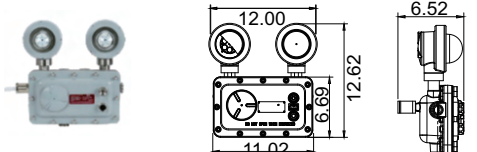
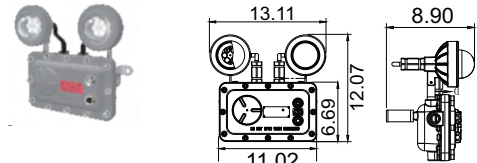
Type B5: Pendant EXIT Sign* + Luminaire (two pieces of spot light) + Emergency Backup Battery

 Big housing	Model Number	Wattage	Head	Exit	Input Voltage
	EX-XXWES02B5A	7W	7-20W	1-5W	AC 100-277V (by driver or by IC) DC 12-48V
	EX-XXWES02B5B	7W	7-20W	1-5W	
	EX-XXWES02B5C	7W	7-20W	1-5W	
	EX-XXWES02B5D	7W	7-20W	1-5W	
	EX-XXWES02B5E	7W	7-20W	1-5W	
	EX-XXWES02B5F	7W	7-20W	1-5W	
	EX-XXWES02B5G	7W	7-20W	1-5W	
	EX-XXWES02B5H	7W	7-20W	1-5W	
	EX-XXWES02B5I	7W	7-20W	1-5W	
	EX-XXWES02B5J	7W	7-20W	1-5W	
	EX-XXWES02B5K	7W	7-20W	1-5W	

XX= Number "7~20", represent wattage.

* Exit sign's content: please refer to page 5.

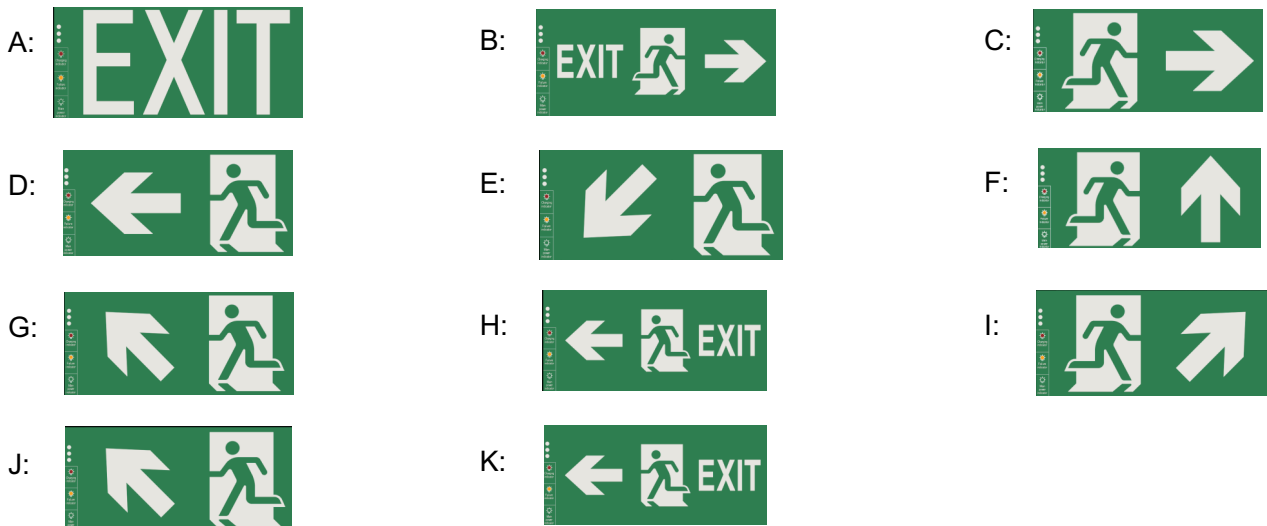
Type C&D: Emergency Light

Housing	Model Number	Wattage	Emergency Time	Input Voltage
 Model C	EX-3W ES02C	3W	180 mins	AC100-277V (by driver and by IC)
	EX-5W ES02C	5W	180 mins	
	EX-10W ES02C	10W	180 mins	
 Model D	EX-3W ES02D	3W	180 mins	AC100-277V (by driver and by IC)
	EX-5W ES02D	5W	180 mins	
	EX-10W ES02D	12W	180 mins	

Packing Information

Model	Quantity/Carton	Packing Size	Net Weight	Gross Weight
ES02A	1 Pc	18.11x10.63x9.05inch	20.94 lbs	25.35 lbs
ES02B01	1 Pc	25.98x20.08x10.24inch	39.68 lbs	46.30 lbs
ES02B02	1 Pc	22.05x20.08x10.24inch	26.46 lbs	31.97 lbs
ES02B03	1 Pc	18.11x10.63x10.24inch	24.25 lbs	28.66 lbs
ES02B04	1 Pc	18.11x10.63x10.24inch	23.15 lbs	27.56 lbs
ES02C	1 Pc	17.32x17.08x11.26inch	19.84 lbs	24.25 lbs
ES02D	1 Pc	17.32x16.34x13.38inch	19.40 lbs	23.81 lbs

• Exit Sign Content



x Installation Guidance:

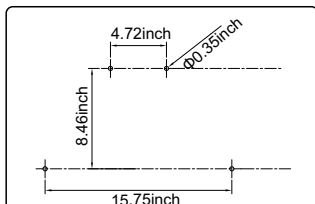
WARNING Risk of fire, electric shock or personal injury. Please turn off power before installation!

- READ INSTRUCTIONS CAREFULLY BEFORE INSTALLING. KEEP THIS INSTRUCTIONS FOR FUTURE REFERENCE.
- THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY QUALIFIED ELECTRICIAN WHO IS FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDOUS INVOLVED.
- Fixtures must be wired in accordance with the National electrical code and all applicable local codes. Proper grounding is required for safety.
- Risk of fire or electric shock. Exit light installation requires knowledge of luminaires and electrical systems. DO NOT open the enclosure when energized. DO NOT try to install if not qualified. Please contact a professional electrician.
- Risk of fire or electric shock. Suitable for wet locations. Make sure the power is off prior to installation.
- Risk of fire or electric shock. Suitable for non-insulated surface and frame. DO NOT cover fixture with insulation liner or similar material.
- DO NOT install in unstable, loose or breakable surfaces.
- DO NOT let objects impact or exert force on the surface of the fixture.

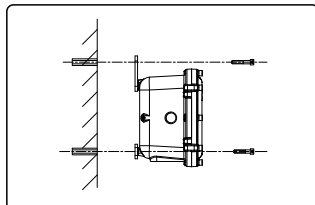
Mounting

• Wall Mounting with Bracket:

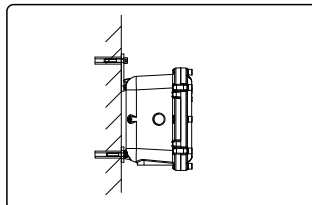
EX-ES02C2/ EX-ES02C3



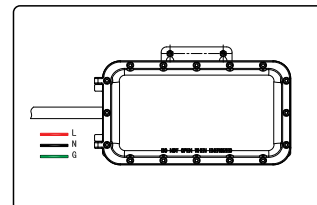
1. Drill 4 holes (Ø0.35inch) as shown above.



2. Install four M8 expanded screws to fix the device.

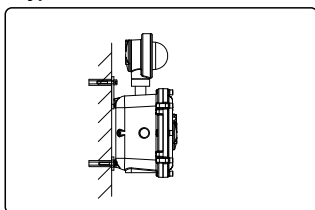


3. Tighten the four screws.

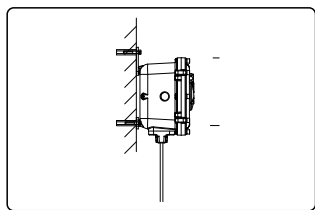


4. Wire the cable: white to L, black to N, green to G.

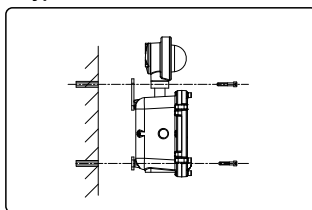
Type B1



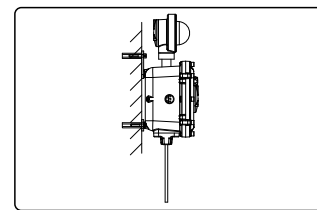
Type B3



Type B4

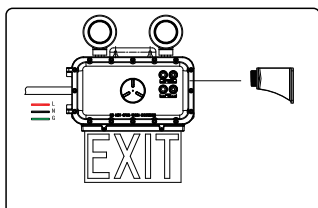


Type B5

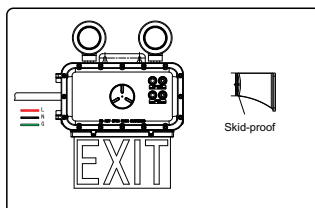


• Wall Mounting with Arm:

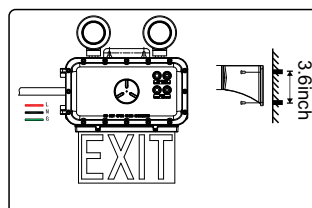
Type B5



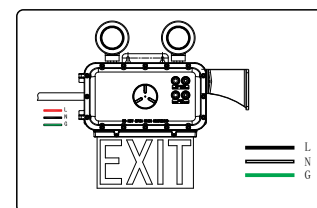
1. Tighten the arm to the fixture.



2. Tighten the screw of skid-proof.

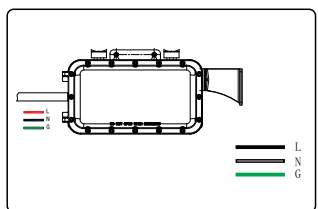


3. Drill two holes (Ø0.39inch) for arm.

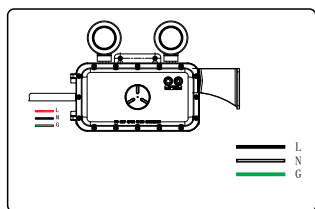


4. Wire the cable: white to L, black to N, green to G.

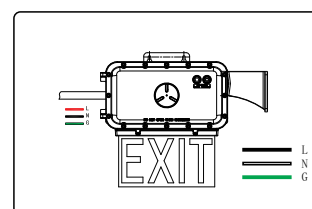
EX-ES02C2/ EX-ES02C3



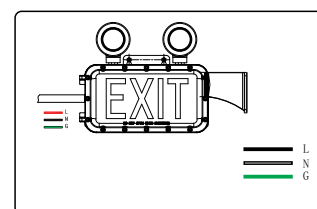
Type B1



Type B3



Type B4



• Accessory



Model: Ex-arm
Name: Mounting Arm
Material: Aluminum