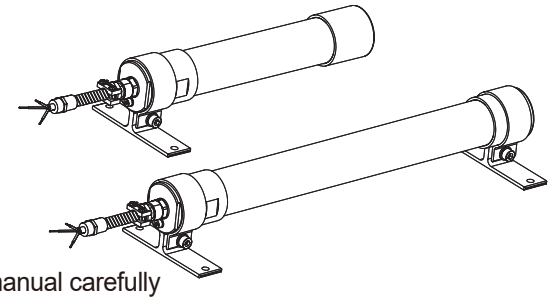
Explosion Proof LED Luminaires

QLEX-SLM series



Thank you for purchasing Qlight's products. Please read this user manual carefully prior to installation and operation to ensure safe and correct use.

⚠ Safety Precautions for Explosion Proof Products

Please follow the instruction below to ensure safe and correct use of explosion proof products.

1. Explosion proof products should be managed according to explosion-proof regulations. Do not disassemble, assemble, alter or repair the product arbitrarily.
2. The temperature rating of the product is the temperature the product will experience at the applied rated voltage and ambient temperature indicated.
3. Use cable glands that satisfy the product's explosion proof grade and temperature grade.
4. Unused cable entries must be filled with material that meets the explosion proof grade and temperature rating.
5. Before installing the product, please make sure all cautions indicated on the labels, packaging, and operation manual of the product are fully understood.
6. Installation, maintenance and repair of the product must be performed by experts in the explosion proof field, or persons who have received relevant training.
7. For safety, the product should be installed and operated in environments that avoid high temperature and high pressure.
8. Please follow general safety precautions and avoid installing the product in locations that may generate excessive heat.
9. When installing the product in places where chemicals are located, please make sure that the environment does not have two or more incompatible chemicals mixed. For safety, please read the instruction manual carefully and be mindful of the chemical compositions where the product is used.
10. Static electricity may be generated by physical contact due to the surface characteristics of this product so please use a wet towel or anti-static cleaner to remove the foreign substances on the product.
11. Please be careful of static electricity during product installation.
    Please eliminate static electricity by using static eliminator or handle the product with anti-static globes.
12. Be cautious of generating static electricity when installing the product. To avoid static electricity , use static-protective accessories or Where anti-static gloves when handling the product.
13. Please note that special conditions shall be applied if the sign "X" is placed after the certificate number.
14. For safe use, regular overpressure test must be carried out in accordance with EN 60079-1, clause 15.2.3.
15. For safe use, tempered glass must be protected from strong impact

⚠ Precaution for Safety

Failure to follow the instructions below may cause a loss of life or serious physical injury.

1. During wiring or maintenance, please completely turn off the power of the product. (Failure to follow this may lead to an electric shock.)
2. Do not install the product in locations that subjects it to excessive dust or water other than the conditions designated by the IP protection ratings indicated for each product. (Failure to follow these instructions may cause a fire to the product, electric shock, physical injury, malfunction or damage to the product.)
3. Do not alter or repair this product. If maintenance or repair service is required, please contact your local Qlight contact point. (Failure to follow these instructions may lead to fire, electric shock, or product damage.)
4. Please apply the correct voltage to the product. (Failure to follow these instructions may lead to fire, electric shock, or product damage.)
5. When the product is applied to a condition that may impact lives or property, please make sure to have a double safety device. (Failure to follow this may cause damage to property, fire, electric shock and loss of life.)

⚠ Precautions for Correct Use

Failure to follow the proper instructions may cause damage to property, the product, or malfunction of the product that would void the warranty.

1. Please remove any objects that can interrupt ventilation around the product.
2. Please turn off the power of the product immediately if it fails to operate properly.
3. Carefully wire the product according to each product's specification.
4. Please be careful in preventing chemicals such as thinner, benzene, etc. in contact with the surface of the product.
5. Do not apply excessive force/impact to the product.
6. Failure to follow any of the instructions above may cause malfunction or damage to the product, fire, and electric shock.

Please scan the QR code for more detailed product information.

www.qlight.com

Ordering Specifications

QLEX-SLM	-	250	-	24
[Model number]		[Length]		[Voltage]
• QLEX-SLM		• 250-250mm • 650-637mm		• 24-DC24V • 220-AC220V

Product Specifications

■Explosion Proof Specifications

Model number	QLEX-SLM-250
	QLEX-SLM-650
Range for operating voltage	DC24V
	AC220V
Ex mark	ATEX - Ⓔx II 2G Ex db IIC T6 Gb IECEx - Ex db IIC T6 Gb KCs - Ex d IIC T6(QLEX-SLM-250) Ex d IIC T5/T6(QLEX-SLM-650) NEPSI, CCC - Ex db IIC T6 Gb (QLEX-SLM-250)
Ambient operating temperature	QLEX-SLM-650 IECEx/ATEX : -40°C≤Tamb≤60°C(DC) QLEX-SLM-650 IECEx/ATEX : -40°C≤Tamb≤55°C(AC) QLEX-SLM-650 KCs : -40°C≤Tamb≤60°C(T5) QLEX-SLM-650 KCs : -40°C≤Tamb≤55°C(T6) QLEX-SLM-250 : –40°C ≤ Tamb ≤+ 60°C
Explosion proof Group / Zone	Zone1, Zone2
Protection rating	IP66/ IP67

Zone definitions(Gas)	Zone 1	High risk gas/vapour
	Zone 2	Medium risk gas/vapour
Group definitions(Gas)	GROUP II A	Acetone, Petrol, Methanol, Propane, Toluene
	GROUP II B	Ethylene, City gas
	GROUP II C	Hydrogen, Acetylene, Carbon sulphide
Maximum surface temperature of electrical equipment	T1	450°C
	T2	300°C
	T3	200°C
	T4	135°C
	T5	100°C
	T6	85°C
Zone definitions(Dust)	Zone 21	High risk powder/dust
	Zone 22	Medium risk powder/dust
Group definitions(Dust)	GROUP III A	Ignitible fibers/flyings(more than 0.5mm)
	GROUP III B	Non-conductive dusts
	GROUP III C	Conductive dusts

■ Optics Specifications/ General Product Specification

Optics Specifications			
Model number		QLEX-SLM-250	QLEX-SLM-650
Lens color		Translucent	
Light color(Standard)		Cooldaylight	
Color temperature(Standard)		6,000-7,000K	
Luminous flux	DC	650lm	1,800lm
	AC	350lm	1,580lm
Illumination(at 1m)	DC	310Lux	650Lux
	AC	240Lux	530Lux

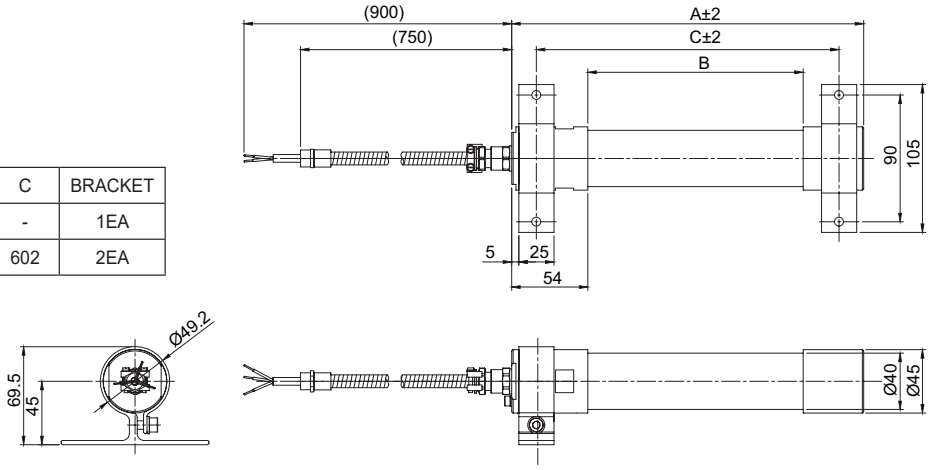
General Product Specification					
Model number		QLEX-SLM-250		QLEX-SLM-650	
Rated voltage		DC24V	AC220V	DC24V	AC220V
Range for operation voltage		DC21.6V-26.4V	AC198V-242V	DC21.6V-26.4V	AC198V-242V
Power consumption		8.6W	9W	20W	23W
Insulation resistance		Min. 100MΩ(500V DC mega ohm meter)			
Withstanding voltage		DC: 500VAC, 60Hz, 1minute/ AC: 1,500VAC, 60Hz, 1minute			
Protection rating		IP66/ 67			
Materials		Side cover-Al, Lens-PC, Bracket-Al			
Certificate		CE KCs ATEX IECEx	ATEX IECEx	CE KCs ATEX IECEx	KCs ATEX IECEx
Weight(approx.)		0.50Kg		0.93Kg	

Dimensions

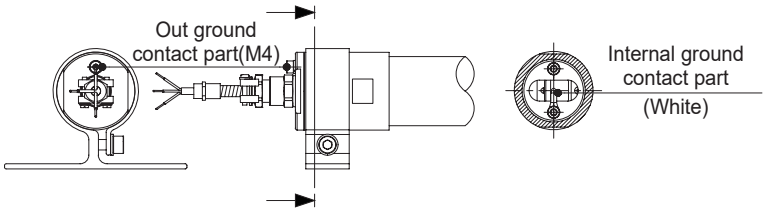
(Units : mm)

QLEX-SLM-250/ QLEX-SLM-650

MODEL	A	B	C	BRACKET
QLEX-SLM-250	250	153	-	1EA
QLEX-SLM-650	637	540	602	2EA

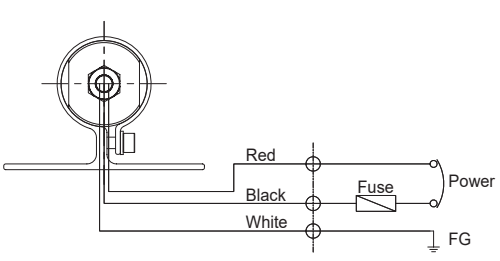


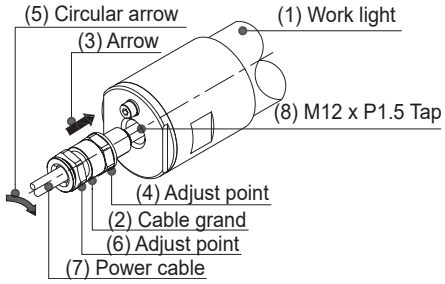
Grounding Instructions



- Outer ground is Please use an M4 bolt at the location marked in the diagram above to ground the product.
- When connecting the grounding cable, please use a ring terminal(Ø4.2mm).
- Please use a grounding cable with a diameter greater than 4mm.
- Internal ground is Just using the White line in Power Cable.

Wiring Instructions

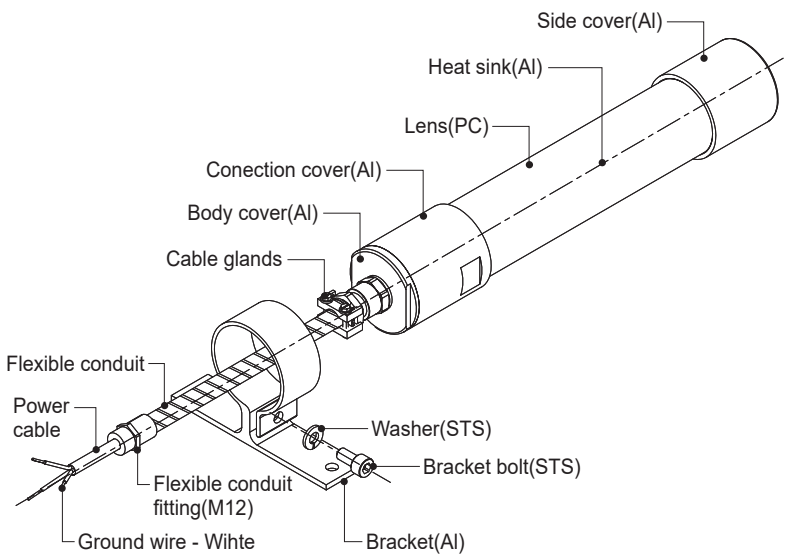




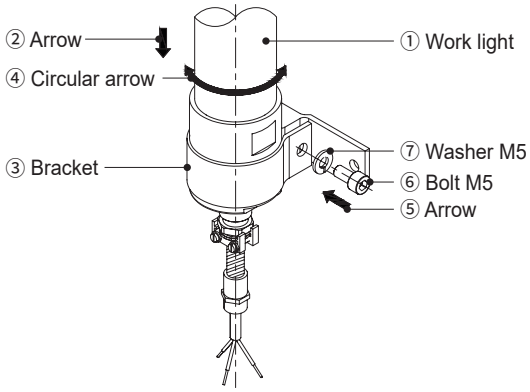
- A Cable gland(2) shall path through power cable(7) in accordance with direction of the arrow(3). The cable gland shall be connected to M12xP1.5 Tab and it shall be fixed at the adjust point(4) with the direction of circular arrow(5) by a tool.
- Please fasten the power cable(7) in accordance with the circular arrow(5) once the adjust point(6) is fixed by the tool.

Parts Definition/ Bracket Adjustment

■Parts Definition



■Bracket Adjustment



- Please place the product on desired surface area and secure it with brackets (either horizontal or vertical direction is possible).
- Insert the lens tube (1) into the bracket (3) in the direction indicated in the diagram (2). Adjust the lighting direction (4) to the desired position.
- Washer M5 (7) and bolt M5 (6) to the bracket in the direction indicated in the diagram (5).

Explosion proof product label

- All equipment that are used in explosive environment must have a label showing on following details in accordance with International Electrotechnical Commission(IEC) Regulation 60079-0.

ATEX, IECEx explosion proof certification – Warning Label

ATEX IECEx KCs

WARNING

1. DO NOT OPEN, MAINTAIN OR SERVICE IN AREA WHERE AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT.
2. TIGHTEN ALL SCREWS AND CABLE GLANDS PROPERLY.
3. AFTER DE-ENERGIZING, DELAY 5 MINUTES BEFORE OPENING.
4. DO NOT OPEN WHEN ENERGIZED.
5. POTENTIAL ELECTROSTATIC CHARGING HAZARD-SEE INSTRUCTIONS

ATEX, IECEx explosion proof certification – Name Plate

ATEX IECEx

Flame-Proof LED Light Ex II 2 G CE xxxx

(1)	TYPE. QLEX-SLM-250	
(2)	PROTECTION.	•Ex db IIC T6 Gb •II 2 G Ex db IIC T6 Gb
	GRADE.	•IP66/67
(3)	CERT NO.	•
(4)	TEMP.	-40°C ≤ Ta ≤ 60°C
(5)	RATING.	VDC24 0.37A 8.6W
(6)	CABLE ENTRY.	M12 x P1.5
(7)	SERIAL NO.	
(8)	YEAR.	
(9)	ADDRESS.	185-25, MUKBANG-RO GIMHAE-SI, KOREA

Qlight Co.,Ltd. http://www.qlight.com

KCs, Nepsi explosion proof certification – Name Plate

Ex NEPSI KCs

EXPLOSION-PROOF LED WORK LIGHT KCs Ex NEPSI

(1)	TYPE. QLEX-SLM-250	
(2)	PROTECTION.	•Ex d IIC T6
	GRADE.	•Ex d IIC T6 Gb
(3)	CERT NO.	•
(4)	TEMP.	-40°C ≤ Ta ≤ 60°C
(5)	RATING.	VDC24 0.37A 8.6W
(6)	CABLE ENTRY.	M12 x P1.5
(7)	SERIAL NO.	
(8)	YEAR.	
(9)	ADDRESS.	185-25, MUKBANG-RO GIMHAE-SI, KOREA

Qlight Co.,Ltd. http://www.qlight.com

(1) Type : QLEX-SLM-250
(2) Protection Type. (① Ex ②d ③ IIC ④ T6)
① : Explosion protection
② : Type of protection – Flame proof enclosure “d”
③ : Explosion Group
④ : Classification of Maximum surface temperature. T6 is 85ºC
(3) Cer’t No.
(4) Temp : Ambient Temperature
(5) Electricity Specification
(6) Cable grand Specification
(7) Serial number
(8) Producing Date
(9) Address

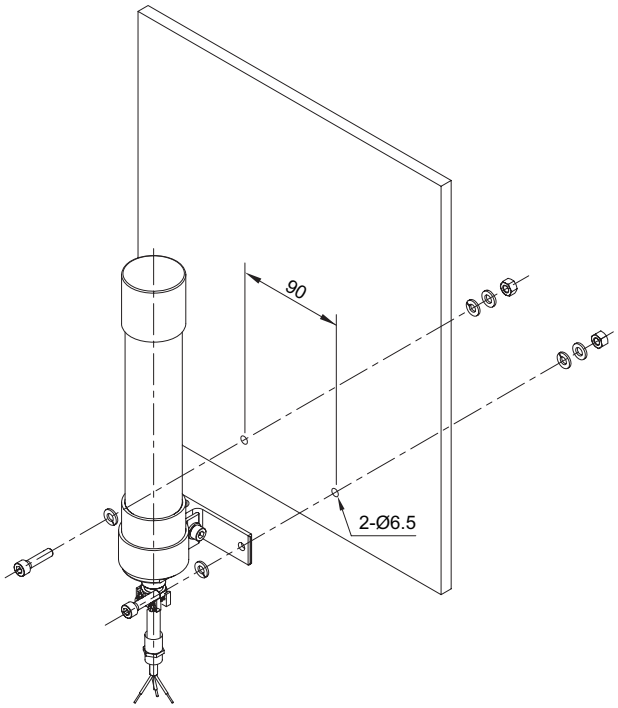
Installation/ Mounting Hole Specifications

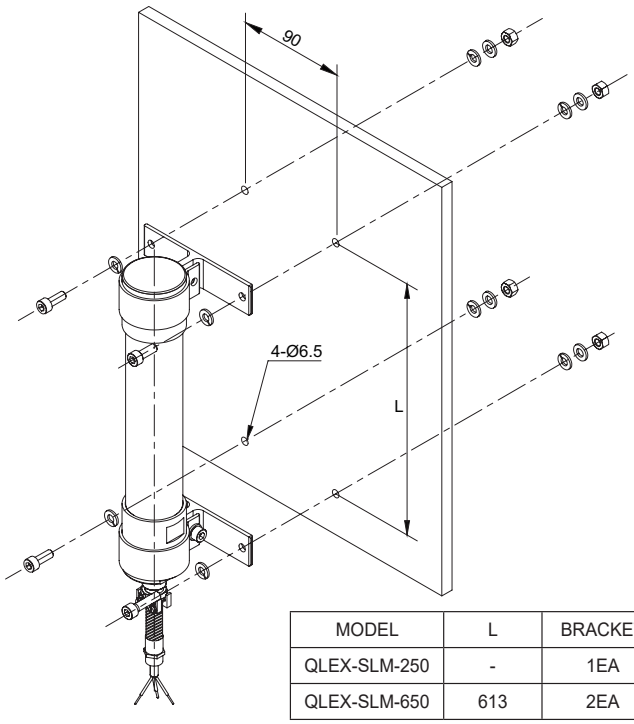
■Installation

- First, machine taps or holes on the mounting surface.
- The mounting hole of this product is 6.5mm in diameter(hole).
- When machining taps, fasten the bolt through the mounting hole of the product.
- When machining holes, insert the bolt through the hole of the product, and tighten the nut from the opposite side of the mounting surface.

■Mounting Hole Specifications

- Machine holes on the mounting surface referring to the diagram below..





MODEL	L	BRACKET
QLEX-SLM-250	-	1EA
QLEX-SLM-650	613	2EA

Installation Environment and Protection Rating

- This product is designed to be explosion proof.
- Please make sure to use the product in an environment that meets the specified explosion proof rating and regulations.
- For further information, please visit our website (www.qlight.com).

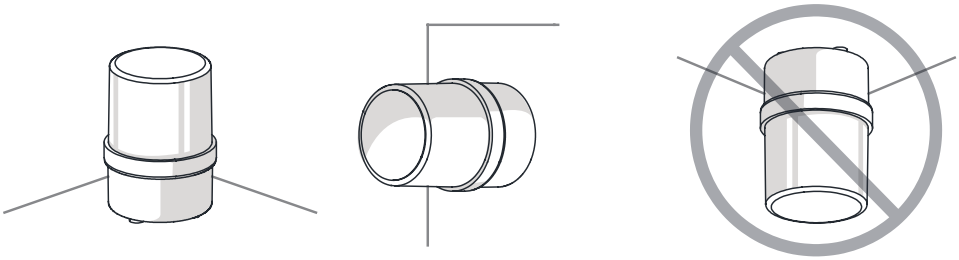
Product installation direction

■ **Install the product in accordance with the manual. Otherwise rainwater or moisture may penetrate into the product.**

· BEACON/SIGNALING LIGHT

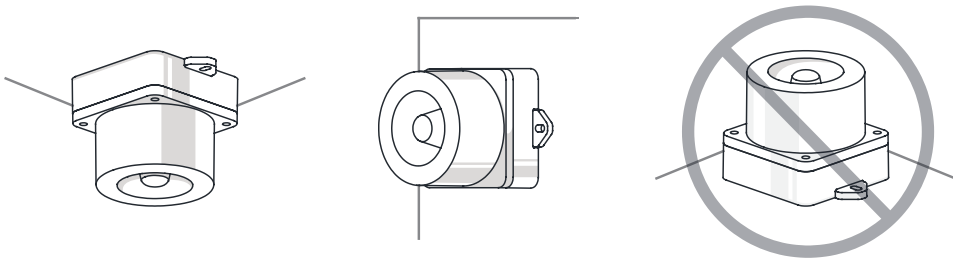
※ For products with a protection rating of less than IPX4, please install it vertically.

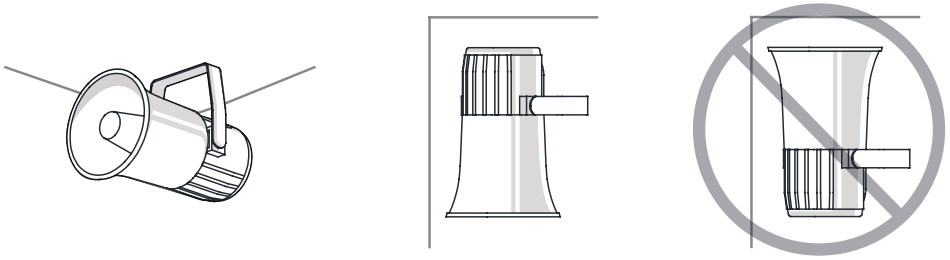
Power cord inlet part shall not be facing the sky.



· ELECTRONIC SOUNDER/SIGNAL HORN

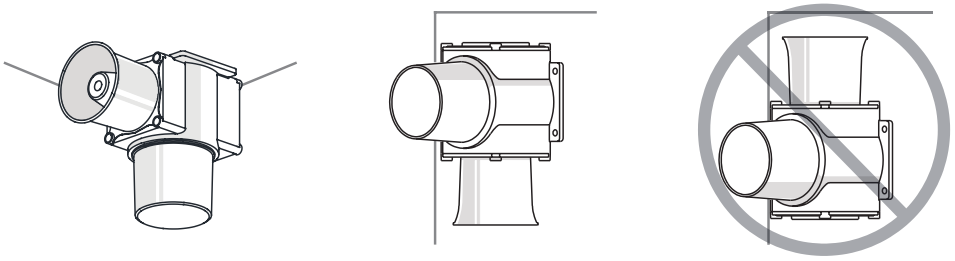
Sounder part shall not be facing the sky.





· HEAVY-DUTY & EXPLOSION PROOF SIGNALINGS

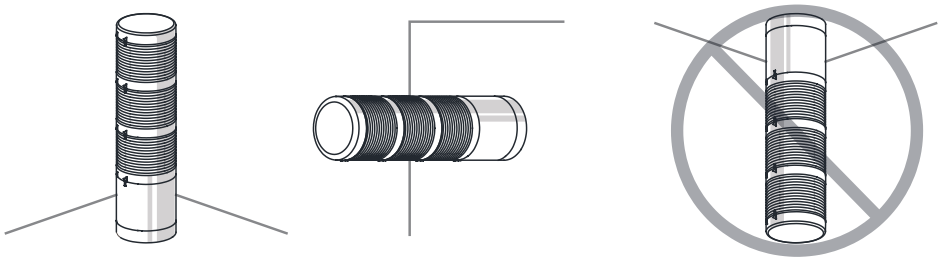
Sounder part shall not be facing the sky.



· SIGNAL TOWER LIGHTS

※ For products with a protection rating of less than IPX4, please install it vertically.

Power cord inlet part shall not be facing the sky.



MEMO

⚠ For your safety

Specification and dimensions listed in this catalogue subject to change without notice for product quality improvement.
The newest product information is available on our website.(www.qlight.com)
Please read the instruction manual attached to the product carefully before installation and use.

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Innovation in Alarm & Signal

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You can expect prompt service if you have exact information such as model name, symptom, telephone number and address.
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