INSTRUCTION MANUAL Rotating Beacons IM23 SKS / SKH / SKP **Multi-function Beacons** W23 SF08 / SF10 Flashing Beacons 020 SL08 / SL10 / SL15

- Thank you very much for purchasing our Patlite products.
- Request the installation and wiring be performed by a professional contractor if construction work is involved.
- Prior to installation, read this manual thoroughly before using this product to ensure correct use.
- In addition, please store this manual for future reference when performing maintenance, repairs or inspections.
- •For options and repair parts, please visit our website (www.patlite.com).
- If there are any questions concerning this product, refer to the contact information at the end of this document and contact your nearest PATLITE Sales Representative.

1 Read this First (Safety Precautions)

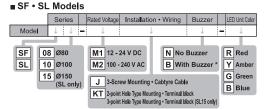
A Warning

- To prevent from short-circuits or damage, observe the following -Be sure the power is disconnected before replacement or repair, including the
- replacement of the fuse. -Use this product in a properly maintained condition. (Replace or repair if the
- globe, case, etc. are damaged.) If installing this product requires construction work, ask a specialist in order to
- avoid fire, or personal injury. When this product is used for security purposes, it should be inspected daily.
- In case a malfunction should occur, it is recommended that you use this product together with other security products.
- After installation, do not use this product to climb up onto the equipment with, Failure to comply will result in product damage and/or falling off the machinery.

Caution Failure to comply with the following points may result in injury, physical loss or damage.

- Be sure to put a fuse in the wiring circuit between the power source and equipment for protection. If a fuse is not added, it may result in product and/or equipment failure.
- Be sure to prevent electrostatic damage due to discharge when working with this product for wiring, exchanging units, setting up parameters, etc. by discharging static electricity on your body, etc.
- Do not disassemble or detach during operation.

2 Model Number Configuration

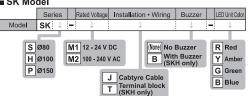


* KT only(SL15 : No Buzzer)

Model Number Example SF08-M1KTB-R

Ø80 • 12 - 24 V DC • 2-point hole type mounting • Terminal block

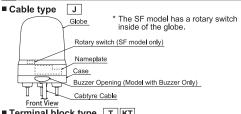
■ SK Model



Model Number Example SKH-M1JB-R

Ø100 • 12 - 24 V DC • Cabtyre Cable • With buzze • Red color

3 Part Names



■ Terminal block type T KT Nameplate Globe Terminal block (SF model only) Nameplate Case **Bottom View** Buzzer Opening (Model with Buzzer Only) Front View

Model	Name	QTY
SFOO-OOKT/SLOO-OOKT	Mounting Bracket, Waterproof Sheet	1
SF08- J/SL08- J/SKS Model	M4 Nut, Plain Washer	3
SF10-□□J/SL10-□□J/SKH Model	M5 Nut, Plain Washer	3
SL15-DDJ/SKP Model	M8 Nut. Plain Washer	3

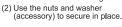
4 Installation

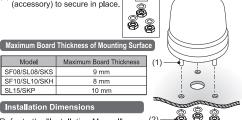
- . Ensure that the product is installed in an environment that meets the following
- Where excessive vibration is not present.
- On a sturdy surface.
- On a level surface.
- When it is necessary to waterproof the backside of the installation surface;
- Provide a sealant coating around the nuts of the backside of the installation
- Waterproof the cable mounting area.
- Ensure that the product is mounted upright when installed outdoors.
- Ensure that the speaker is facing forward when installing the buzzer models.
- Depending on your operating environment, additional waterproofing may be required on the Terminal Block openings for SKH-MIT models

■ 3-Screw Mounting Type J T

(1) Insert the bolts of the beacon into the holes of the mounting surface.







Refer to the "Installation Manual".

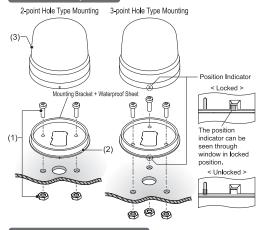
■ 2-point Hole Type Mounting (SF • SL Models) 3-point Hole Type Mounting (SL15 Model Only)

(1) Use the screws or bolts, nuts. to secure the mounting bracket (accessory) to the mounting surface. (Installation screws and nuts are not included with this product. Binding head screws or pan head screws are recommended.)

	Model	Screw Hole Depth of Mounting Bracket	Nominal Diameter
SF08	3/SL08	4.4 mm	M4
SF10	D/SL10	5.7 mm	M5
SL15	5	4.8 mm	M8

- (2) Check that the O-ring is not twisted.
- (3) Align the main unit of product with the positioning Indicator and turn it clockwise to lock it.

nstallation Example



Installation Dimensions

Refer to the "Installation Manual"

↑ Caution

 Use a soft cloth moistened with water to clean the globe or case. (Do not use thinner, benzine, gasoline or oil.)

Note

 The type with a buzzer if the buzzer opening is splashed. with water, the Sound Pressure Level may drop.

5 Wiring

⚠ Caution

- Make sure the power is OFF before wiring. A short circuit may damage internal circuits.
- Ensure the proper working voltage is used. Any mistake in wiring may result in
- Do not pull the wire, or stuff it inside of this case.
- Be sure the wiring is done properly. Any mistake in wiring may result in damage. In the M2 model, do not perform blinking control by turning the power supply
- ON / OFF. Any mistake in wiring may result in damage. Do not apply a voltage to the common wire. (M1 type)
- Do not apply a voltage to any wire other than the power supply wire. (M2 type)
- Failure to comply will result in product damage (except buzzer wire of SKH-M1) Do not expose the wiring from the device. If tension is applied to the wiring, the
- wiring may be disconnected, resulting in a short circuit or an electric shock,
- Use either a Contact Switch or Contact Relay for External Contact that power supply wire of SF, SL, SK Models and buzzer wire of SK Model. Failure comply may result in fire, product malfunction

Notice

- The protection rating does not include the Cabtyre Cable
- If the ends of the it are in contact with water or exposed to dew or condensation, refer to the indications below to dress the wire ends for water
- Connect the it ends in a location which will not expose the ends to water
- Use Fillers, such as silicon, etc., to seal the it ends. Cabtyre Cable end

[External contact capacity of power supply wire]

		M1	M2
	Current Capacity (Is)	3A or more	1A or more
_			

[External contact capacity of signal wire and buzzer wire]

Fuse Rating

	M1	M2
Current Capacity (Is)	10 mA or more	10 mA or more
Withstand Voltage (Vs)	20 V or more	20 V or more
Leakage Current* (IL)	0.1 mA or less	0.1 mA or less

* When using an NPN open-collector transistor.

SK Model .		
	M1	M2
Current Capacity (Is)	0.5 A or more	0.5 A or more
Withstand Voltage (Vs)	35 V or more	20 V or more
[Fuse]		

250 V 1 A -7-

Wire Type / Wire Gauge

Wire Type : UL2464

Wire Gauge : M1 AWG22

M2 Power Supply Wire ΔWG18 Excluding Power Supply Wire AWG24

Wiring Example

■ Installation

Refer to the "Installation Manual"

Terminal Block Wiring		
■ Recommended lead wire specifications		
Wire Type	Wire Gauge (Solid Wire)	Wire Gauge (Stranded Wire)
UL1007 / UL1430	0.13 ~ 1.5 mm ²	AWG28 ~ 14
Temperature rating should be above 75°C, and the conductor material should be of copper wire. Note		
Strip 8-9 mm of wire insulation from the lead wire to insert into the terminal block. Do not tug on to the lead wire to remove- always unlock the lever before removing the wires. The tip of the flathead screwdriver should be no more than 2mm wide and 0.5 mm thick.		

Do not put excessive force on the lever, as this may cause the lever to break.

Align a flathead screwdriver to the groove of the lever. Press down to release the lock.





6 Specifications

Model	Rated Voltage
SF08-M1/SF10-M1	12 - 24 V DC (Non-polar)
SF08-M2/SF10-M2	100 - 240 V AC (50/60 Hz)
SL08-M1/SL10-M1/SL15-M1	12 - 24 V DC (Non-polar)
SL08-M2/SL10-M2/SL15-M2	100 - 240 V AC (50/60 Hz)
SKS-M1J/SKH-M1J/SKP-M1J	12 - 24 V DC (Non-polar)
SKS-M2J/SKH-M2J/SKP-M2J	100 - 240 V AC (50/60 Hz)
SKH-M1T	12 - 24 V DC (Non-polar)
SKH-M2T	100 - 240 V AC (50/60 Hz)

<Conformity Standards>

- EMC Directive (EN61000-6-4, EN61000-6-2)
- RoHS Directive (EN IEC 63000)
- UL508, CSA-C22.2 No.14 (File No. E215660)

This product must not be used in residential areas.

- . FCC Part 15 Subpart B Class A
- . This product has been tested and found to comply with the limits for a Class A device. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

<Conformity to FCC Compliance>
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. The equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in aresidential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

(Note) • Dimensions and specifications may change without notice due to

continual product improvement.

• PATLITE and the PATLITE logo is a trademark, or registered trademark of the PATLITE Corporation of Japan and each country.

本製品には、お買い上げ日より1年間の製品保証に加え、2年間の無償修理対応(1年間の製品保証含 む)をお付けしております。

無償修理対応の適用範囲は、製品保証規定に進じます。

製品保証規定

[Ver.2.1 (2018.07.27)]

この保証規定は、お客様がお買い上げ頂いた製品 に関して、株式会社バトライト(以下、「弊社」といいま す)が保証する内容について明記しています。

那「条(目的) 1.本規定は、弊社の製品(以下、「本製品」といいます) に関する保証責任の取扱いについて定めるも。

のとします。 2. お客様が本製品の使用を開始された時点で、お客 様は本規定に同意して頂いたものとし、お客様と弊社 との間で本規定の効力が有効に生ずるものとします。

②輸送中における本製品の保護を目的とした梱包 材料(製品梱包箱・ビニール袋・緩衝材等)

育4条(免責事項) . 「奔性は、以下の各号のいずれかに該当する場合、不見に関して前条に定める保証責任を負わな 第6条(その他) いものとします。 ○本製品の総定・運搬中に発生した衝撃・落下 タロケ等の記載が容払、事前に予告なしに変更す

⑤お客様または第三者の故意または過失により不 見が発生した第3面の禁止事項に適反した のよる報告が第5条第3面の禁止事項に適反した のとしまず、本書に明元した条件に基づきでは、 のとしまず、本書に明元した条件に基づきでは、 公書、塩害・静電気・停電・異常電圧等の外 節約要配に起因して不良分弁をした場合 (本製品の販売時点における科学または技術に 関する効果によっては、学生が長く手術と、子供を 関する効果によっては、学生が大阪を予請すると の本製品の販売時点における科学または技術に 関する効果によっては、学生が大阪を予請すると のまた。

□・回転期間の第了後に不良が発生し、お客様において当該不良が保証期間のに発生したことを証明 することができない場合 ②野社に対して本意のご提示がない場合 ②野社に対して本意のご提示がない場合 ②野社に対して本意のご提示がない場合 ②野社に対して本意ので提示がない場合 第一次では、100円では

(3本ソアドノエアを第二者に別して特別日前時・貝 与・レンタル・転売するごと(3本ソフトウェアを第三者に送信可能な状態でネットワーク上に蓄積するごと(3本ソフトウェアに付されている著作権表示およびその他の権利表示を除去すること

①本製品の輸送、運搬中に発生した衝撃、落下 タログ等の記載内容は、非削に予告なしに変更す等の外部的変固により不良が発生した場合 トレース 多場合かあります。 2 本製品の製品仕情報・取扱説明書・取り扱い会 ・ 2 本製品の製品仕情報・取扱説明書・取り扱い会 ・ 2 本製品に関する弊社の責任は、本規定をもうている製品・ ・ 車両・船船・建造物・ソフトウェア等による外 的要因に起口て不良が発生した場合 ・ 2 本資本技術とは、対しておりませい。 ・ 2 本資本技術とは、対しております。 ・ 3 本保証書は、日本国内においてのみ有効に効力 ・ 6 本資本様または第三者が事前に弊社の承諾を得 るとなく本製品の対象・改造・機体・付属 取付等を行ったことは、外表が規生した場合 ・ 3 本保証を行ったことは、指している場合と、 ・ 3 本保証書は、 ・ 2 本資品に関するその責任は、 ・ 3 本保証書は、 ・ 3 本保証書は、 ・ 3 本保証書は、 ・ 3 本保証書は、 ・ 3 本資品に関するとの責任は、 ・ 3 本資品に関するとの責任は、 ・ 3 本資品に関するとの責任は、 ・ 3 本資品と、 ・ 3 本資品と ・ 3 本意品と ・ 3 本品と ・ 3 本品と

関ンの北アルベンしは、平丘ルアはで丁卯9つ 本が月末(中央ルボルンと)できない優介の とかできない優介。 ・通常使用に基づく本製品の自然消耗または経 年労化によいた民が発生した場合 ・多本製品が日本以外の国において使用されたこと によいて民党学生した場合 ・以外によいた現で発生した場合 ・以外によいて表で表である。 ・以上

株式会社パトライト

J2F

〈注〉・寸法・仕様および構造などは、改善のため予告なく変更することがあります。 ・パトライトおよび PATLITE は、株式会社パトライトの日本及び各国の登録商標または

株式会社パーライト

www.patlite.co.jp

[受付]月~金 9:00~17:00 ●技術・修理相談窓口 (無料):0120-497-090 ※ご注文・価格・納期等は、販売店または各営業所拠点にお問い合わせください。

PATLITE Corporation G2J

PATLITE Corporation *Head office PATLITE (U.S.A.) Corporation PATLITE Europe GmbH *Germany PATLITE (SINGAPORE) PTE LTD ■www.patlite-ap.com/ PATLITE (CHINA) Corporation PATLITE KOREA CO., LTD. PATLITE TAIWAN CO., LTD. PATLITE (THAILAND) CO., LTD. PATLITE MEXICO S.A. de C.V.

www.patlite.com/ ■www.patlite.com/ www.patlite.eu/ www.patlite.cn/ www.patlite.co.kr/ ■www.patlite.tw/

■www.patlite.co.th/

www.patlite.com.mx/

- 13 -- 14 -- 15 -