

INSTALLATION, OPERATION, STORAGE AND MAINTENANCE INSTRUCTIONS PAPAILIAS, INC. SERIES SLEX/REX EXPLOSIONPROOF LIGHT FIXTURES

1.0 INTRODUCTION |

Sight lights are simple devices for providing illumination to the inside of a pressure vessel or pipeline through a sight glass or sight flow indicator. Sight lights can be expected to perform reliably if they are properly specified, free of any vibration or shock loadings caused by rapid temperature changes or mechanical impacting and lastly, by using good workmanship in the installation and maintenance of the Sight Light.

All personnel involved in the installation and maintenance of a Sight Light should read and understand all instructions in this manual before attempting installation or maintenance. Personnel should also be familiar with any drawings depicting the Sight Light and have the drawings, if available, on hand during installation or maintenance.

3.0 RECEIVING INSPECTION |

Papailias Company, Inc., Sight lights meet or exceed all applicable specifications and standards when they are shipped from the factory. Sight lights should be inspected carefully for shipping damage. If damage is evident, do not attempt installation and notify the carrier immediately. If damage is only suspected consult factory before attempting installation.

4.0 STORAGE & HANDLING |

Sight lights should be carefully stored after inspection. They should be stored in such a manner as to be protected from adjacent equipment, the weather, dust, dirt, and any corrosive atmospheres. The lamp requires extra attention due to the fact that it is easily damaged. It is best to leave all Sight lights in the original packaging while awaiting installation.

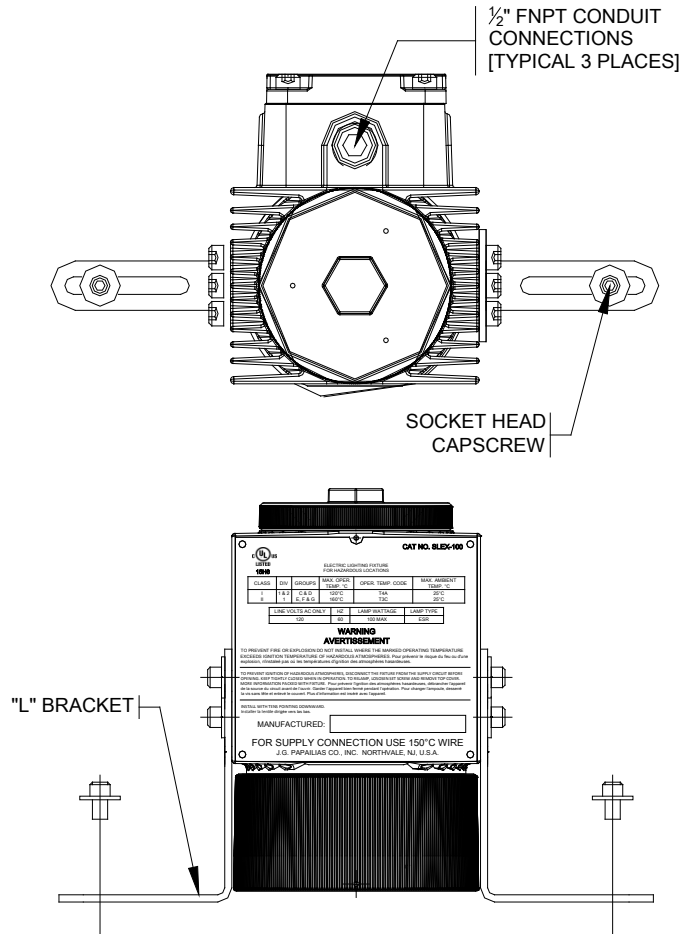
Personnel handling Sight lights should have clean hands, free of all dust, dirt, and grease. Sight lights should only be placed on clean surfaces, preferably covered with clean cloth or clean paper.

6.0 INSTALLATION |

Installation should only be done by qualified personnel who are familiar with Sight lights and local and

national electrical codes. All personnel should be read and have a complete understanding of all instructions in this manual and also be familiar with any available drawings depicting the Sight Light.

6.1 MOUNTING - Series SLEX-100 and REX-100 Sight lights are equipped with an two “L” shaped slotted mounting brackets. Place the Series SLEX-100 or REX-100 fixture on the Sight glass aligning the mounting bracket slots with tapped hole in the Sight glass and fasten with socket head capscrews provided to finger tight. Slide Sight Light to center of Sight glass and tighten capscrews as shown in Figure 1.



SLEX & REX WIRING MOUNTING [FIGURE 1]

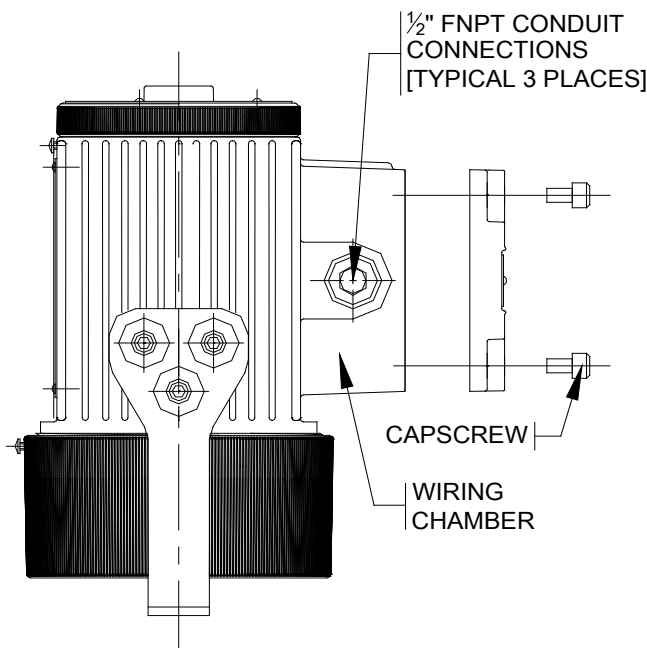
6.2 WIRING - Before starting work or wiring, installation personnel must check with the site electrical engineer, local electrical inspector or other authority to verify the type and size of the connection wire required and that the circuit receiving the Sight Light is of an adequate rating.

CAUTION: UNDERWRITER'S LABORATORIES REQUIRES THE SUPPLY WIRING TO BE RATED FOR 150° C. THE SERIES SLEX & REX ARE RATED FOR 115 VOLTS AC

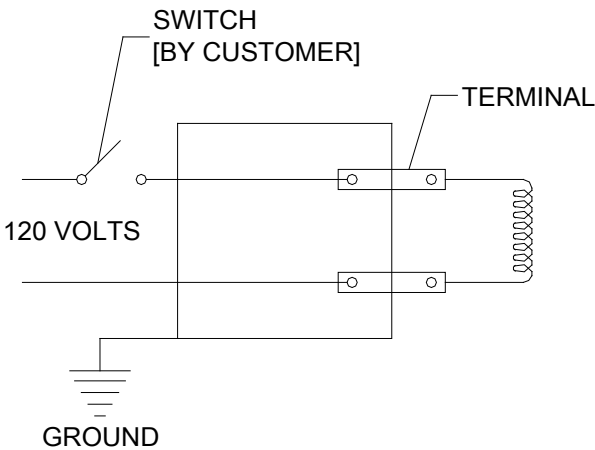
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AND 100 WATTS. BEFORE STARTING ANY WIRING, MAKE CERTAIN THE ELECTRICAL CIRCUIT IS DEAD AND THAT IT CAN NOT BE INADVERTENTLY MADE ACTIVE DURING WIRING OF SIGHT LIGHT.

Wiring of the Series SLEX-100 and REX-100 Sight Light is performed by loosening the 4 side socket head capscrews and removing the cover as shown in Figure 2. Remove most convenient plug from wiring chamber and connect suitable conductive conduit for the classified hazardous location. Connect wires as shown in Figure 3 using wire nuts or crimp-on butt connectors. Ground is to be provided through the conduit.



SLEX & REX WIRING [FIGURE 2]



SLEX & REX WIRING DIAGRAM [FIGURE 3]

8.0 START-UP |

8.1 PRE-OPERATIONAL EXAMINATION:

- a. Verify that all installation procedures have been followed and completed.
- b. Check mounting fasteners to be certain Sight Light is held rigidly to the Sight glass.
- c. Examine wire connections for broken insulation and permanency.

9.0 OPERATION

J.G. Papailias Co, Inc., Sight lights are simple devices designed to provide a means to illuminate the inside of a pressure vessel or pipe through a Sight Glass or Sight Flow Indicator. The Series SLEX-100 and REX-100 are not provided with a switch. Sight Light must be energized through a customer supplied switch suitable for the hazardous classified location. Sight Light may be wired through a momentary or maintained type of switch.

The Series SLEX-100 and REX-100 are listed by Underwriters Laboratories and are suitable for operation as indicated in Table A.

Model	Reflector	Watts (Max)	Class	Div.	Group	Temp. Code	Maximum Operating Temp.
SLEX-100	No	100	I	1, 2	C, D	T4A	120° C
SLEX-100	No	100	II	1	E,F,G	T3C	160° C
REX-100	Yes	100	I1	1	C, D	T2B*	260° C
SLEX-HI-LED	No	7	I	1, 2	C, D	T4A	120° C
SLEX-HI-LED	No	7	II	1	E,F,G	T3C	160° C

*Operating temperature exceed safe temperatures for some Group C materials. To prevent fire or explosion, install only as intended.

UNDERWRITERS LABORATORY LISTINGS - [TABLE A]

Lastly, although Sight Glasses and Sight Light are simple devices and will provide trouble free operation provided they are installed properly. It is also important that the Sight Glasses are not located in areas where objects may be dropped, thrown or generally

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allowed to come in contact with it. The Sight Glasses should also be protected from vibration and thermal shock which could be a result of exposure to cold air blasts or cold water rinse. It is recommended Personnel using a Sight Glass should also use safety glasses which meet industrial safety standards.

8.0 MAINTENANCE

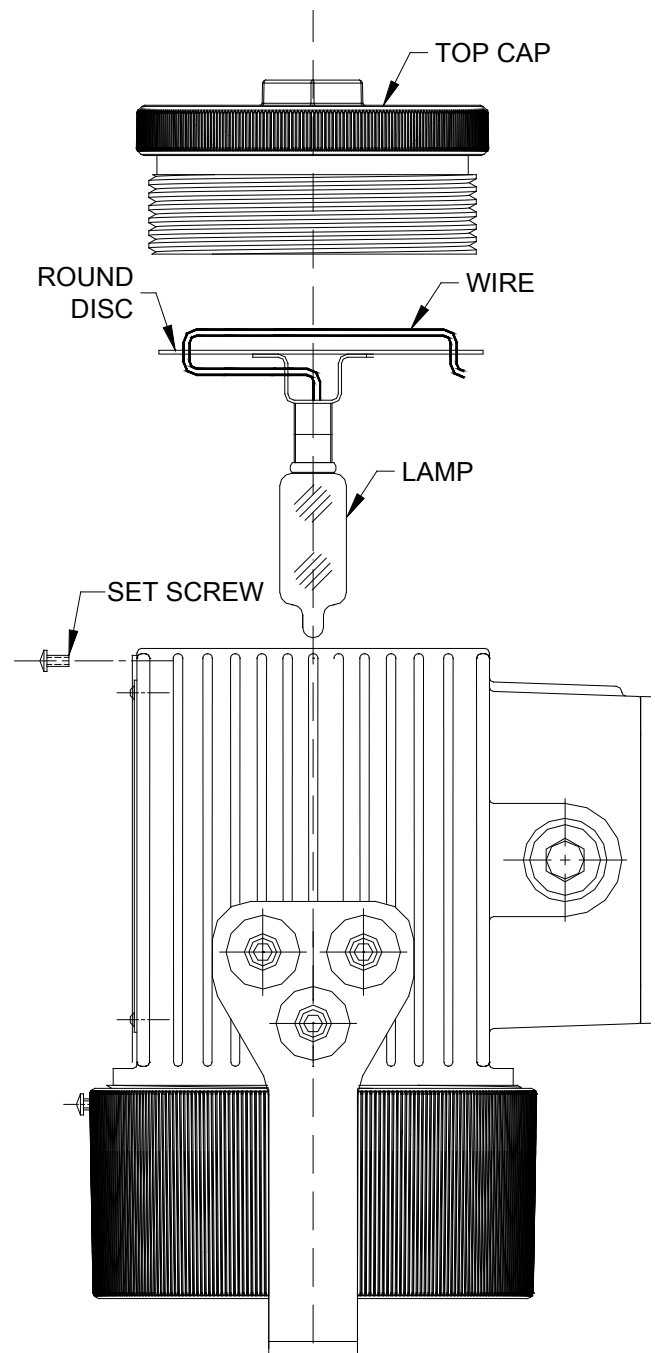
The only maintenance required on a Sight Light is the occasional need to replace the lamp. Spare lamps may be purchased from the

J.G. Papailias Company. To avoid any inconvenience, it is recommended that end user keep one spare lamp for each Sight Light in service.

8.1 RE-LAMPING SLEX/REX-100 [HALOGEN]: To re-lamp the Series SLEX-100 or REX-100 Sight Light follow the below procedure and refer to Figure 4.

CAUTION: BEFORE STARTING RE-LAMPING, MAKE CERTAIN THE ELECTRICAL CIRCUIT IS DEAD AND THAT IT CAN NOT BE INADVERTENTLY MADE ACTIVE DURING RE-LAMPING OF SIGHT LIGHT.

- a. Loosen and remove set screw found above the large nameplate. After removing set screw unscrew and remove top cap.
- b. Straighten wire found in the center of the opening and carefully lift out round disc which contains the socket and lamp.
- c. To remove [using gloves], push the lamp in slightly and rotate counterclockwise until lamp springs from socket.
- d. Remove replacement lamp from box and separate from protective wrapping. DO NOT touch any part of lamp with bare fingers as this will shorten the lamp life. Wrap lamp with paper wrapper provided by manufacturer. Install new lamp by aligning pins on sides of lamp base with slots in socket. Push lamp into socket as far as it will go and rotate clockwise until hitting stop.
- e. Carefully lower disc lamp assembly into body.
- f. Hold disc in body and pull all excess wire in the housing below disc through holes to top of disc. Twist wires into a curled-up ball like configuration in the center of disc.



**SERIES SLEX-100 & REX-100 RE-LAMPING
[FIGURE 4]**

8.2 RE-LAMPING SERIES SLEX/REX-HI-LED [HI-LED]

To re-lamp the Series SLEX-HI-LED or REX-HI-LED Sight Light follow the below procedure and Figures.

- a) Attach HI LED "Light Engine" to existing fixture by [1] attaching white wire-to-white wire and [2] attaching black wire-to-black-wire using "crimp-tight" wire connectors. [FIGURE 5]



ATTACH LIGHT ENGINE USING CRIMP-TIGHT WIRE CONNECTORS [FIGURE 5]

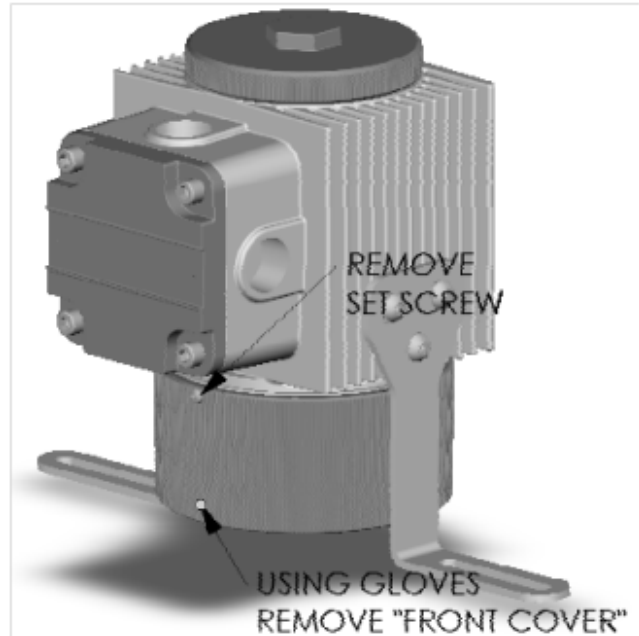
b) Pull slack wire thru “Back-Plate” on HI-LED “Light Engine” Assembly and carefully insert HI-LED Light Engine into the main body of the fixture/housing. [FIGURE 6]



INSERT HI-LED ENGINE [FIGURE 6]

c) Remove Knurled “Front-Cover” as follows:

1. Remove Set Screw with screw-driver
2. Using Gloves unscrew “front-Cover” by twisting in a counter clockwise direction. [FIGURE 7]



REMOVE SET SCREW & “FRONT-COVER” [FIGURE 7]

d) Lay red-silicone gasket on top of HI-LED “Light Engine” as shown. [FIGURE 8]



LAY GASKET ON-TOP OF HI-LED “LIGHT ENGINE” [FIGURE 8]

e) Insert Centering-Ring with “flat Side” facing outward and re-attach knurled “Front-Cover” and Set Screw. [FIGURE 9]