

Phaeton® SL/HL Sight Light



CAUTION: Light should only be connected to the power supply provided with the unit. All lights are tagged with the service conditions for that particular unit. These specifications are located on the Jacoby•Tarbox® tag on the housings and are contained in the “Specifications” section of this manual. Do not use or refer to specifications listed on the red label on the power supply housing. Those specifications are specific for the enclosure only! Review the ratings prior to installation and start-up to ensure proper operation for the installed environment. Should there be any doubt pertaining to the application of a unit for the installed environment, consult the factory before placing the unit into service.

NOTE: All installation steps should be performed by a qualified technician and should be executed in accordance with all applicable national and local codes.

JACOBY•TARBOX®
A PRODUCT OF CLARK-RELIANCE

Phaeton® SL/HL Sight Light

To place the Phaeton SL/HL into Service:

1. Place the light directly onto the desired window.
2. Mount light to sight flow indicator or sight window with supplied mounting hardware.
3. Remove the plug in the $\frac{3}{4}$ " NPT conduit connection. Open the housing. The Power Supply has a 2-position terminal block, ready to connect to the customer's power. All electrical specifications must comply with NEC guidelines. After connecting the power, close the housing.
4. **IMPORTANT: The customer must have a conduit sealing fitting within 18" of the Power Supply.**

CAUTION: Verify that the area is free of flammables before continuing.

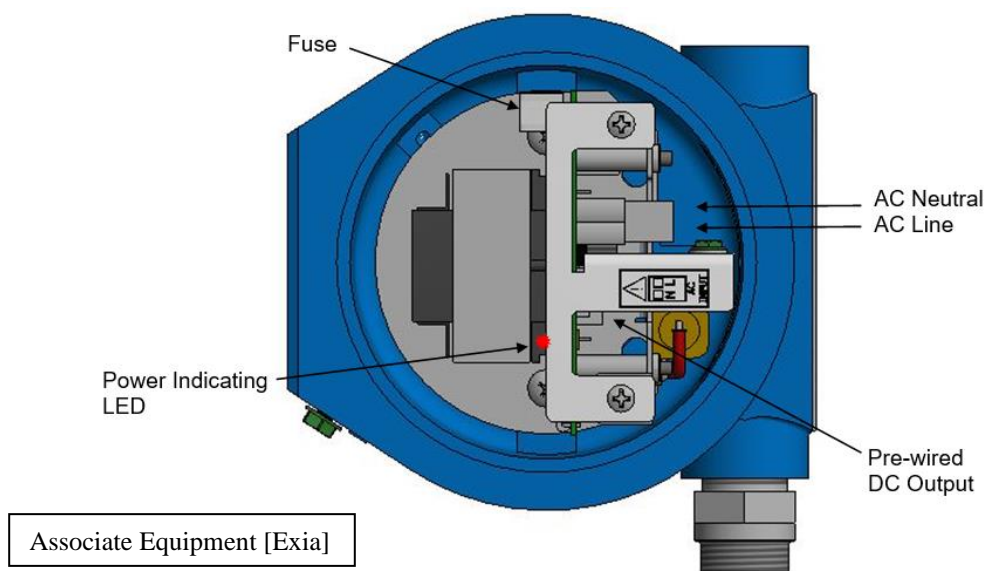
5. Turn the power on, then connect the light to the power supply using the supplied DC power cord. The Phaeton SL should be lit.

Warning: To avoid possible damage to eyes, do not look directly into the Phaeton sl light ring.

If the cable will not reach the Power Supply, contact your local representative for the required DC extension cord. Do not attempt to cut and splice the cord.

6. If the Phaeton SL is not lit, check the connections between the Light and the Power Supply and check the power source. If Light remains unlit, turn the power source off and disconnect the unit from the power source. **IMPORTANT: Take the Power Supply and Light to a non-hazardous environment. DO NOT REMOVE THE COVER IN A HAZARDOUS LOCATION WHEN POWER IS ON.**
7. Remove the Power Supply cover and connect the Power Supply to a power source in the workshop. An LED will be lit if it is wired correctly. If the LED is not lit, check the (3) fuses and replace as needed. If the LED remains unlit, call the factory for more support. Once the LED is lit, replace the cover on the Power Supply and install the equipment in its working positions as described in the previous procedures.

NOTE: See Drawing CI-26677 for safety information for hazardous locations.



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STORAGE and HANDLING

Jacoby•Tarbox® Phaeton SL/HL Sight Light meets or exceeds all applicable specifications when they are shipped from the factory. This unit can be applied in many different applications where light is required.

All units should be inspected upon receipt to ensure that no damage was incurred during transit. If damage has occurred, a claim should be filed with the carrier immediately. Units should be stored in an area protected from the elements and corrosive fumes in a secure manner. Care should be taken to protect the window and the end connections from damage. Avoid placing any objects directly on the light at any time.

OPERATION

Phaeton SL Series Light runs continuously. The operating life of the LED's is 100,000 hours (over 10 years) under normal conditions. Customers may install a switch or timer if desired. **Do not install any components between the sealing fitting and Power Supply.**

ROUTINE MAINTENANCE

Keep the window on the front of the Light clean using commercial glass cleaners, such as Windex® or similar. Never use harsh abrasives, wire brushes, metal scrapers, or any material that could scratch the window. The window may be cleaned while the unit is in operation.

The light may be removed while the unit is in operation during inspection or maintenance of the customer's sight flow indicator. Never disconnect the blue DC Power Cord while the power supply is energized. Disconnecting and Re-connecting while energized can cause damage to the LEDs.

**** REPLACEMENT PARTS WARNING****

The use of Non-Original Equipment Manufacturer parts (such as glass, gaskets, probes, modules, etc.) will void the Agency Approval (FM, UL, CSA, ETL, etc...), pressure/temperature rating, and warranty of this equipment. Clark-Reliance requires the use of OEM parts for all repairs on this product in order to maintain plant and personnel safety and reliable operation.

Phaeton SL Replacement Components

Item	Part Number	Description
1	A25115-115	115VAC Power Supply on Bracket (No Enclosure)
2	A25115-230	230 VAC Power Supply on Bracket (No Enclosure)
3	A25119-115-E6-P	115VAC Power Supply W/ Aluminum Enclosure USA/CAN (Class, Division Certified)
4	A25119-230-E6-P	230VAC Power Supply W/ Aluminum Enclosure USA/CAN (Class, Division Certified)
5	A25481-115-E6-P	115VAC Power Supply W/ Aluminum Enclosure IECEX/ATEX (Zone Certified)
6	A25481-230-E6-P	230VAC Power Supply W/ Aluminum Enclosure IECEX/ATEX (Zone Certified)
7	E-F-DIN-0250-T	250mA Fuse (for use with 115 VAC Power Supply)
8	E-F-DIN-0125-T	125mA Fuse (for use with 230 VAC Power Supply)
9	V20601-# (# = length ft)	Extension DC Power Cord for Remote Mounting Power Supply
10	TIK-SL-L	Aluminum LED Assembly
11	TIK-SL-S	316SS LED Assembly
12	X175585	Mounting Hardware Kit

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WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY.

Note 1: Multiple DC Power Cords may be supplied, depending on the required distance between the Light and the Power Supply. The maximum distance between the Power Supply and the Light is 72ft (22m).

Labeling details: Power Supply

Phaeton® SL/HL™

MODEL: TIK-PH PART #: S25481

CAUTION: TO REDUCE THE RISK OF IGNITION OF HAZARDOUS ATMOSPHERES, CONDUIT RUNS MUST HAVE SEALING FITTING WITHIN 457mm (18") OF ENCLOSURE. DISCONNECT POWER BEFORE SERVICING. KEEP ASSEMBLY TIGHTLY CLOSED WHEN IN OPERATION. TO PREVENT THE RISK OF ELECTROSTATIC SPARKING, PAINTED SURFACES SHOULD BE CLEANED WITH A DAMP CLOTH.

INDUSTRIAL CONTROL EQUIPMENT FOR HAZARDOUS LOCATIONS. ASSOCIATED APPARATUS PROVIDES INTRINSICALLY SAFE OUTPUT. SUBSTITUTION OF COMPONENTS MAY IMPAIR SAFETY.

II 2 (2) G Ex db [ib] IIB+H2 T4 Gb IP66/TYPE 4X ITS20ATEX25919X
Ex db [ib] IIB+H2 T4 Gb IP66/TYPE 4X IECEx ETL 20.0063X

SEE CONTROL DRAWING CI-26677 FOR FULL INSTALLATION AND PRODUCT WARNING INFORMATION

VOLTAGE: VAC



AMB. TEMP.: -40°C/-40°F ≤ Ta ≤ 60°C/140°F
115/230 VAC, 0.250/0.125 A, 50/60 Hz, Um = 250V
MIN/MAX WIRE: 0.8mm²/3.5mm² (18 AWG/12 AWG), 80°C MIN
ENCLOSURE: 3/4" NPT CONNECTION

Mfg. by Clark-Reliance Corporation; Strongsville, Ohio 44149 USA
+1 (440) 572-1500; www.clarkreliance.com



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A PRODUCT OF CLARK-RELIANCE

Specifications:

Power Supply:	115 or 230 VAC @ 50-60 Hz
Power Supply Weight:	7.4 lbs
Power Consumption:	<125mA @ 230 max <250mA @ 115 max
Estimated Life:	100,000 Hours (continuous)
Wire Size:	Min 18 AWG (0.8 mm²) / Max 12 AWG (3.5 mm²)
Max Distance from Power Supply to Light Strip:	50 ft (15 m)
Electrical Connection:	3/4" FNPT

US/Canada Approvals:

Class I, Division 1, Groups B,C,D T4
Class I, Zone 1, AEx db [ib] IIB+H2 T4 Gb (Power Supply)
Class I, Zone 1, AEx ib IIB+H2 T4 Gb (Light)
Ex db [ib] IIB+H2 T4 Gb (Power Supply)
Ex ib IIB+H2 T4 Gb (Light)
-40°F (-40°C) ≤ Ta ≤ +140°F (60°C)

ATEX Approvals:

II 2(2) G Ex db [ib] IIB+H2 T4 Gb (Power Supply)
II 2 G Ex ib IIB+H2 T4 Gb (Light)
-40°F (-40°C) ≤ Ta ≤ +140°F (60°C)

IECEx:

Ex db [ib] IIB+H2 T4 Gb (Power Supply)
Ex ib IIB+H2 T4 Gb (Light)
-40°F (-40°C) ≤ Ta ≤ +140°F (60°C)

Labeling details: Light Source

Phaeton® SL/HL™

MODEL:



II 2 G Ex ib IIB+H2 T4 Gb NEMA 4X ITS20ATEX25919X
Ex ib IIB+H2 T4 Gb NEMA 4X IECEx ETL 20.0063X
SEE CONTROL DRAWING CI-26677 FOR INSTALLATION AND ALL PRODUCT WARNING INFORMATION

AMB. TEMP.: -40°C/-40°F ≤ Ta ≤ 60°C/140°F
SYSTEM MODEL TIK-PH, USE ONLY WITH POWER SUPPLY S25481

INDUSTRIAL CONTROL EQUIPMENT INTRINSICALLY SAFE FOR HAZARDOUS LOCATIONS.
Mfg. by the Clark-Reliance Corporation; Strongsville, Ohio 44149 USA; +1 (440) 572-1500; www.clarkreliance.com

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A PRODUCT OF CLARK-RELIANCE

MFG. DATE:





On-Line Parts – DIRECT – for Clark-Reliance Products

www.clark-reliance.com/parts