

INCH-POUND

MIL-DTL-3661/63D

28 February 2025

SUPERSEDING

MIL-L-3661/63C

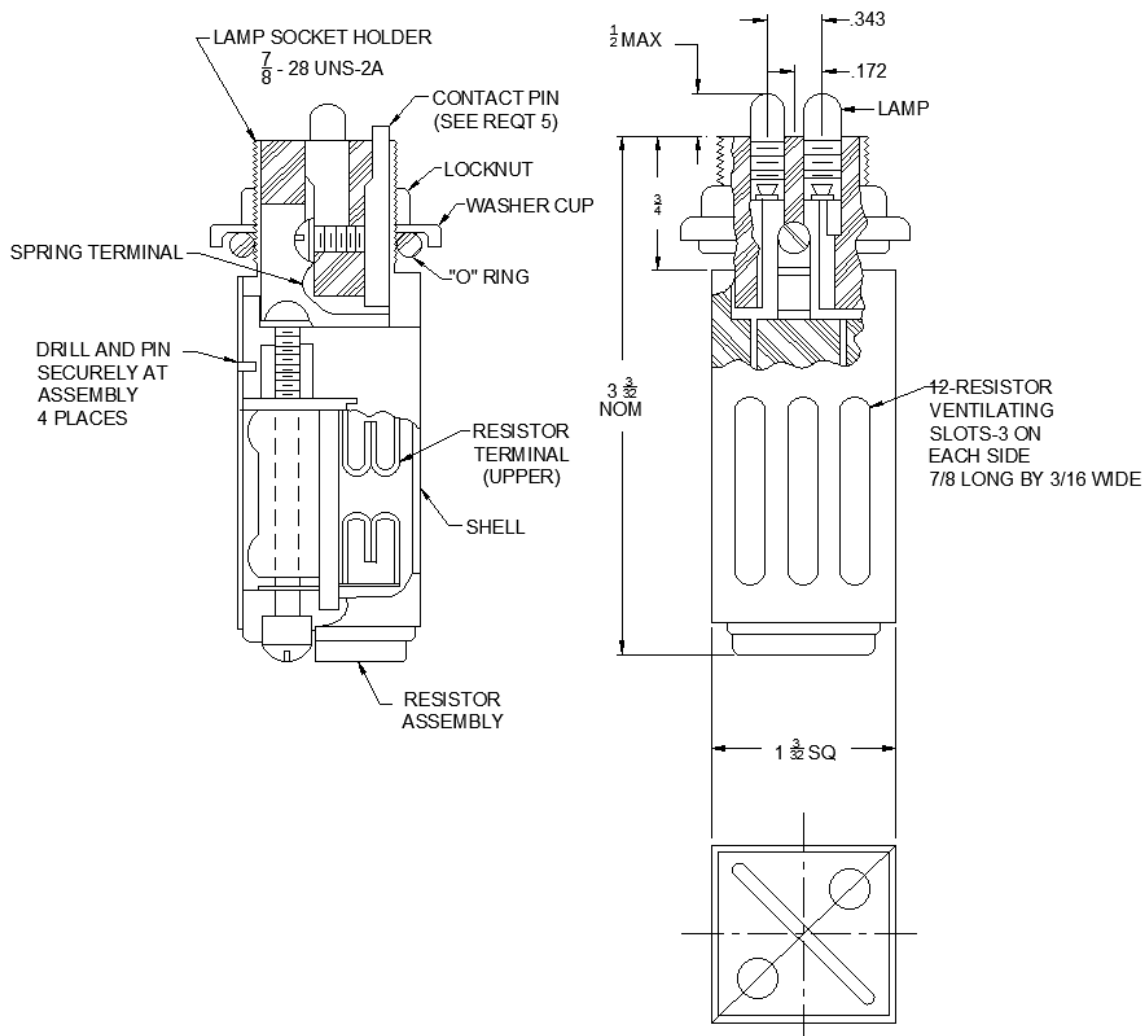
25 October 1978

DETAIL SPECIFICATION SHEET

LAMPHOLDER, LIGHTS, INDICATOR (HOUSING), STYLE LH96

This specification is approved for use by all
Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-3661.



AMSC N/A

DISTRIBUTION STATEMENT A: Approved for public release; Distribution is unlimited

FSC 6210

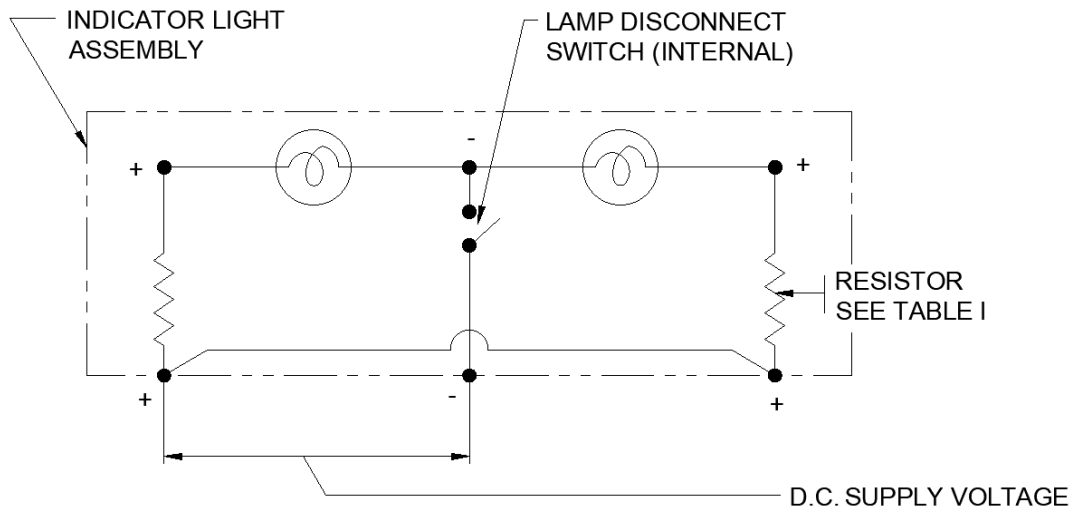


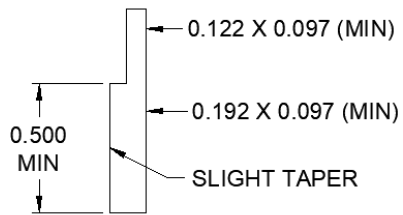
Inches	mm	Inches	mm
0.172	4.37	7/8	22.23
3/16	4.76	1-3/32	27.78
0.343	8.71	3-3/32	78.58
1/2	12.70		

FIGURE 1. Style LH96 housing.

NOTES:

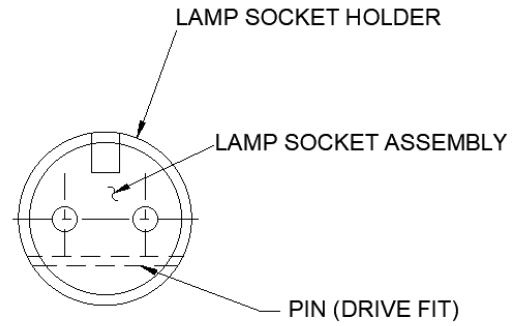
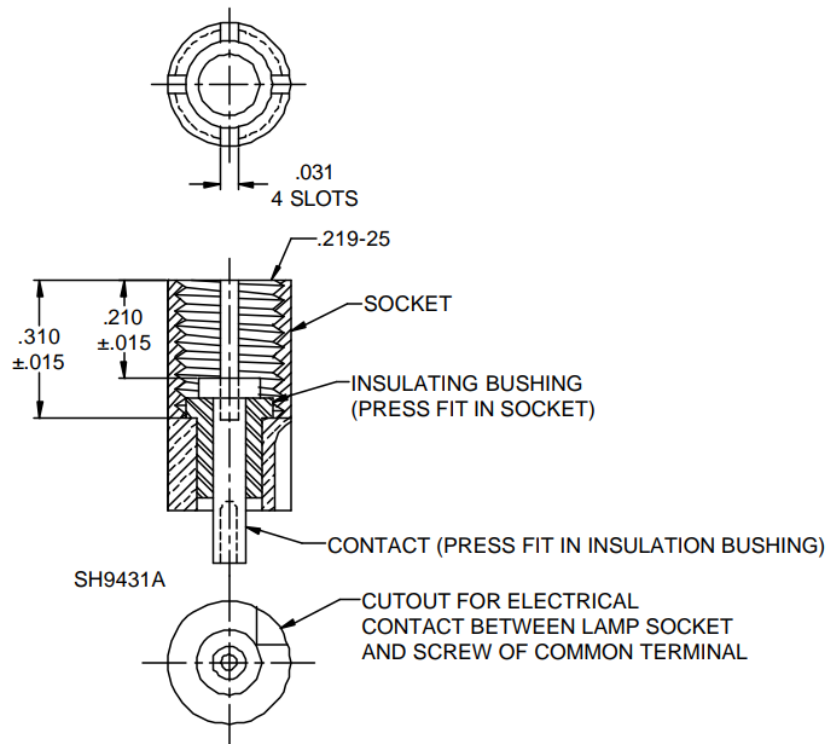
1. Dimensions are in inches. Unless otherwise specified, tolerances are plus or minus 1/64 inch (0.38 mm) for fractions and plus or minus 0.015 inch (0.38 mm) for decimals.
2. Metric equivalents (to the nearest 0.01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.

FIGURE 2. Wiring diagram.



Inches	mm
0.097	2.46
0.122	3.10

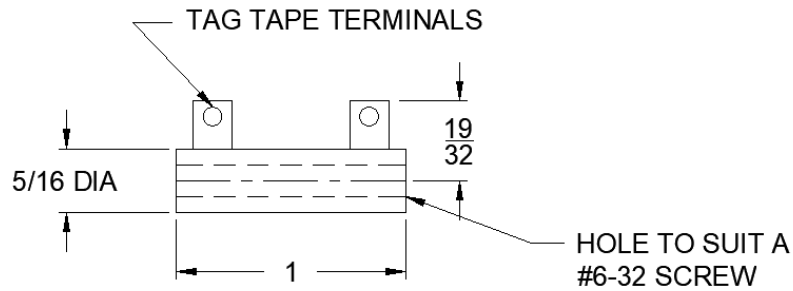
Inches	mm
0.192	4.88
0.500	12.70

FIGURE 3. Contact pin.FIGURE 4. Security pin.

Inches	mm
0.031	0.79
0.210	5.33

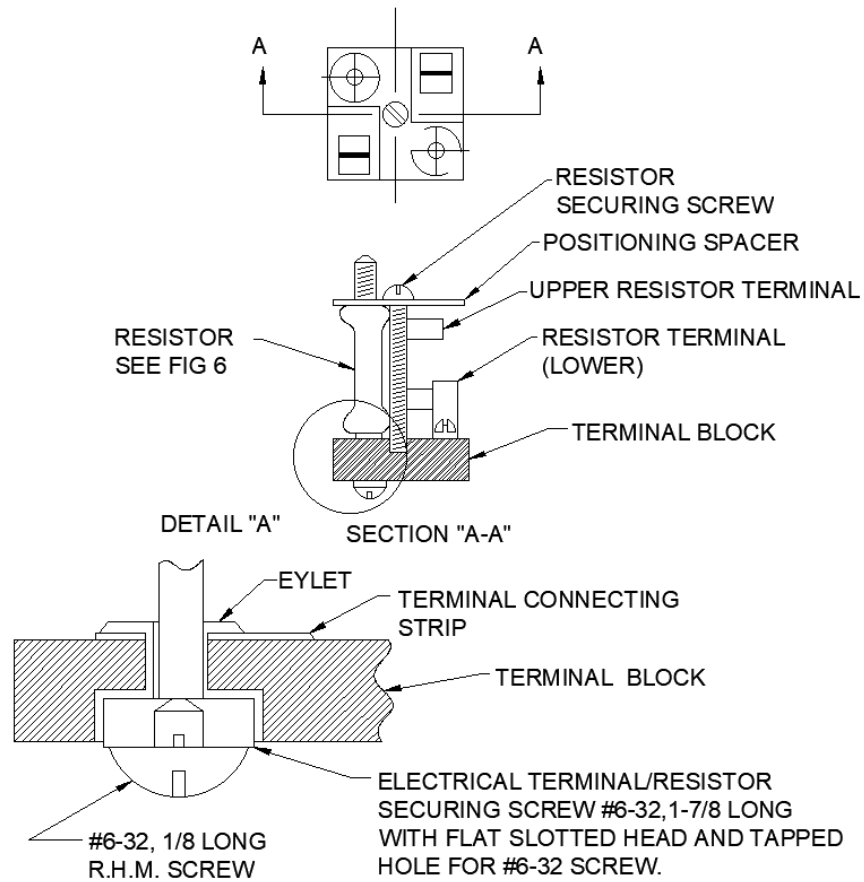
Inches	mm
0.219	5.56
0.310	7.87

FIGURE 5. Midget screw lamp socket.



Inches	mm
5/16	7.94
19/32	15.08
1	25.40

FIGURE 6. Resistor.



DETAIL "A" - ARRANGEMENT OF POSITIVE TERMINAL

Inches	mm
1/8	3.18
1-7/8	47.63

FIGURE 7. Resistor assembly.

TABLE I. Style LH96 housings.

Type designation ^{1 2}	D.C. Voltage (V)	Resistor Rating	Lamp accomodation ²
LH96/2	12	300 ohm – 5 W	³ 342
LH96/3	24	600 ohm – 5 W	
LH96/4	48	1200 ohm – 5 W	
LH96/5	120	2800 ohm – 5 W	
LH96/6	240	6300 ohm – 10 W	

¹ The style LH96 indicator light housings shall mate with any of the lenses shown on MIL-DTL-3661/52 through MIL-DTL-3661/59.

² Mating lenses and lamps are not furnished. They are furnished by the installing activity.

³ Industry number.

Supersession data: This specification sheet replaces type B-39B of Drawing 9000-86202-74307.

REQUIREMENTS:

1. Qualification: Not required.
2. Material:
 - a. Terminal block, contact pin, insulators: Type MME and MAI-60 of ASTM D5948.
 - b. Shell, locknut, washer cup, lampsocket holder, socket contact, electrical terminal, securing screw, eyelet: Brass.
 - c. "O" ring: Rubber.
 - d. Spring and resistor terminal: Beryllium copper.
3. Finish: Exposed metal parts shall be black nickel.
4. Design and construction: See figures 1 and 2.
5. Contact pin: The contact pin shall make contact with the internal terminals of the assembly and close the lamp circuit when the pin's projection is not less than 1/16 inch (1.59 mm) above the face of the socket shell. The pin design shall be such that continuous internal terminal contact shall be provided when the pin is depressed from this distance to flush with the face of the shell (see figure 3). (Contact shall be freely operative by the indicator lens to make or break the electrical circuit.) The contact pin may be two-piece construction in lieu of one-piece as shown herein. If this is done, the upper portion shall be brass 0.6 inch (15.24 mm) long and the lower portion shall be plastic.
6. Security pin: A security pin is required to prohibit movement of the socket assembly in the lamp socket holder (see figure 4).
7. Internal wiring: Shall be insulated to prevent the possibility of shorting.
8. Lamp sockets: Shall be as shown on figure 5.
9. Resistor assembly: The resistor assembly shall be removable and shall be as shown on figure 7. Two wire wound, power type, resistors as shown on figure 6 shall be provided for each type designation of the rating shown in table I. A positioning spacer shall guide the upper resistor terminal to make the connection with the upper, permanently mounted resistor terminal.

10. Locknut: Hexagonal with rounded corners, 1-1/16 inches (26.99 mm) outside diameter (O.D.), 1 inch (25.40 mm) across flats, 7/8 UNS-2B thread, 3/16 inch (4.76 mm) thick.
11. Washer cup: 1-5/16 inch (33.45 mm) O.D., 5-7/64 inch (22.62 mm) I.D., 1/8 inch (3.18 mm) high, 0.051 inch (1.30 mm) thick.
12. "O" ring: Size shall conform to SAE-AS28775-212.
13. Electrical terminals: Electric terminals shall be provided as shown on figures 1 and 7. Molded separation, at least 3/16 inch (4.76 mm) high and 3/32 inch (2.38 mm) wide, shall be provided between the terminals to prevent shortouts when electrical connections are made using terminal lugs.
14. Dielectric withstanding voltage: At sea level shall be 1,000 V alternating current.
15. Shock: Method II.

QUALITY ASSURANCE PROVISIONS:

First article inspections: First article inspection of style LH96 housings shall consist of the following:

- a. Visual and dimensional examination.
- b. Shock.
- c. Vibration.
- d. Moisture resistance.
- e. Dielectric withstanding voltage.

Conformance inspection: Conformance inspection of style LH96 housings shall consist of the following:

- a. Visual and dimensional examination.
- b. Dielectric withstanding voltage

Sampling for conformance inspection: A random sample of housings shall be selected from each lot in accordance with MIL-STD- 1916, verification level I. Any housing in the sample containing one or more defects or failing to conform to the dielectric withstanding voltage test shall be rejected. If the number of nonconforming housings in any sample exceeds the acceptance number for that sample, the lot represented by the sample shall be rejected.

Intended use: Style LH96 indicator lights are intended for use on switchboards in conjunction with direct current systems.

Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

CONCLUDING MATERIAL

Custodians:

Navy – SH

DLA – GS2

Preparing Activity:

DLA – CC

(Project 6210-2025-006)

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil>.