

INCH-POUND

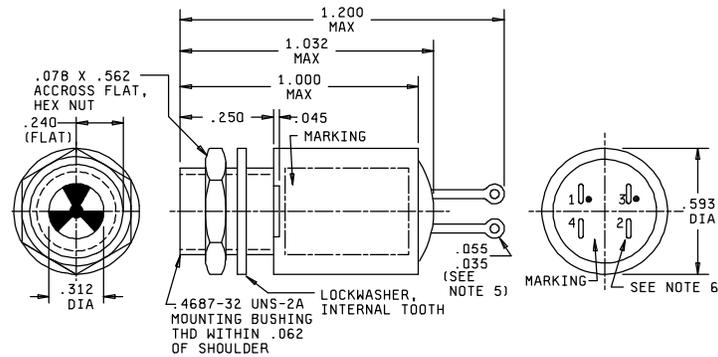
MIL-PRF-83287/2D  
30 AUGUST 1999  
SUPERSEDING  
MIL-I-83287/2C  
29 March 1991

PERFORMANCE SPECIFICATION SHEET

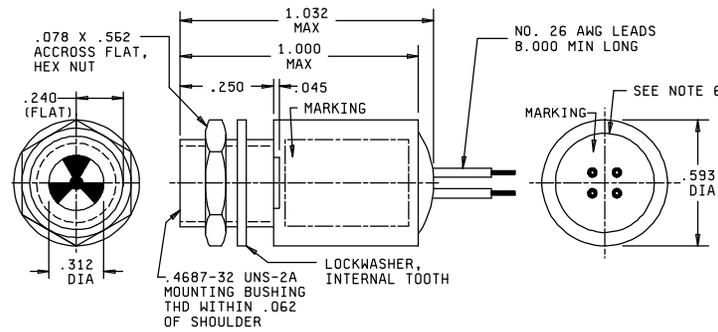
INDICATORS, FAULT LOCATING, FLAG INDICATING,  
ELECTRICAL RESET

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

The requirements for acquiring the indicators described herein shall  
consist of this specification sheet and the latest issue of MIL-PRF-83287.



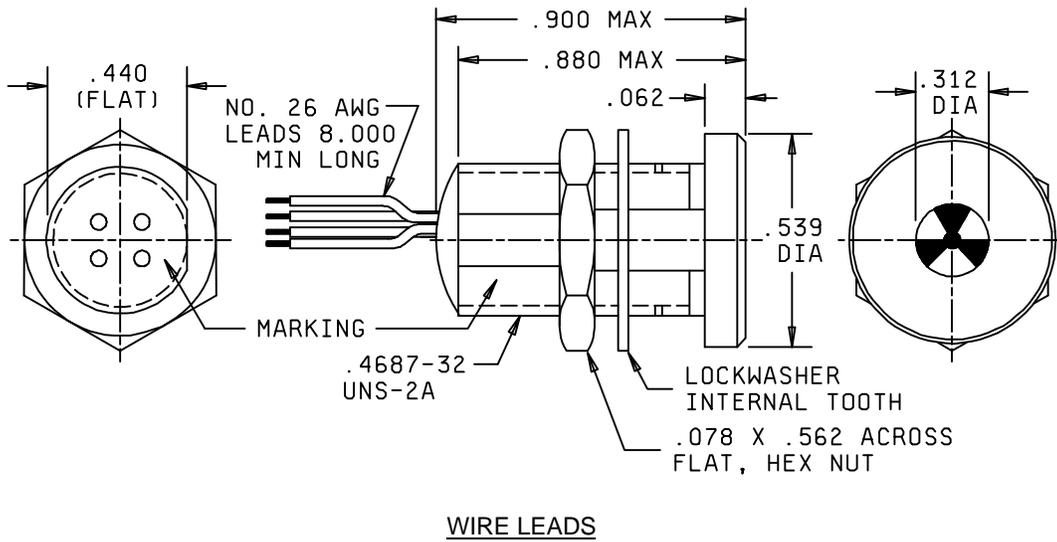
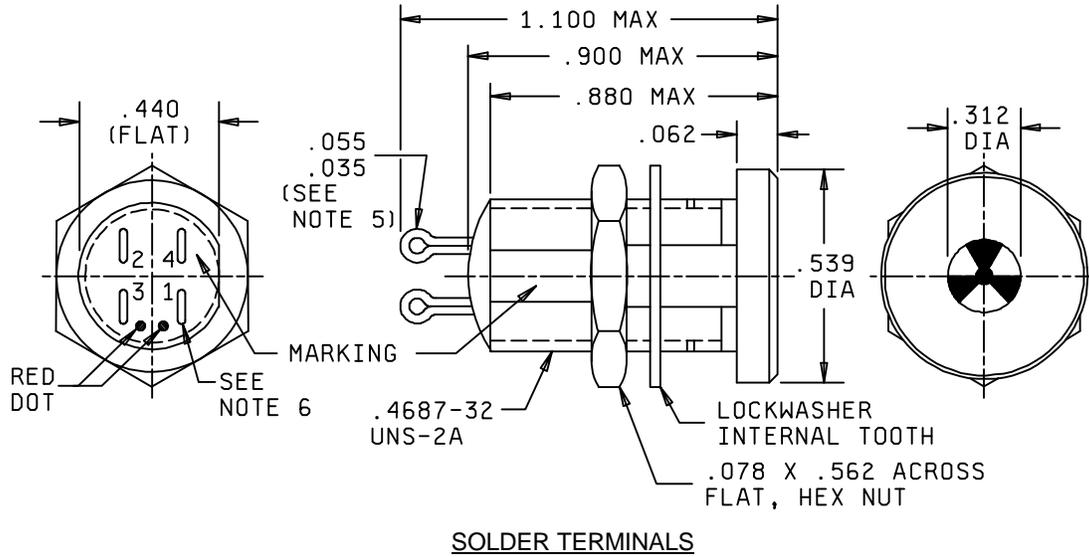
SOLDER TERMINALS



WIRE LEADS

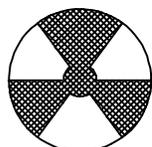
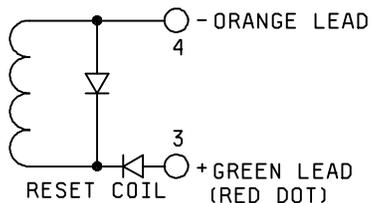
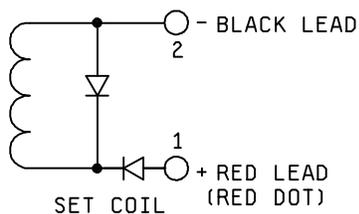
CONFIGURATION A

FIGURE 1. Dimensions and configurations.

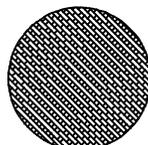


CONFIGURATION B

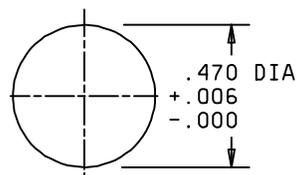
FIGURE 1. Dimensions and configurations – Continued.



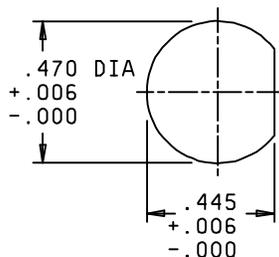
"FAULT INDICATION:  
BLACK AND WHITE



"NO FAULT" INDICATION:  
BLACK



PANEL LAYOUT



PANEL LAYOUT

Inches	mm
.006	0.15
.035	0.89
.045	1.14
.055	1.40
.062	1.57
.078	1.98
.240	6.10
.250	6.35
.312	7.92
.324	8.23
.4687	11.904
.475	12.07
.562	14.27
.593	15.06
1.00	25.4
1.032	26.21
1.200	30.48
8.000	203.20

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is  $\pm .005$  (0.13 mm).
4. The flag and the flat on the mounting bushing shall be aligned approximately as shown.
5. The shape and location of the solder terminal shown is not intended to limit specific manufacturing processes. When the shape of terminal in the schematic is used, the hole diameter shall be as shown.
6. The positive terminal shall be identified by a red dot.
7. Mounting torque of 5 to 7 in-lbs may be used.

FIGURE 1. Dimensions and configurations - Continued.

REQUIREMENTS:

Dimensions and characteristics: See figure 1 and tables I and II.

Weight (including hardware): 0.044 pound (20 grams), maximum.

Diodes: When specified in table I, the indicators shall contain both transient suppression and steering diodes internally connected as shown on figure 1.

Coil transient suppression: Applicable, when diodes are specified (see table I).

Transfer pulse length: A pulse length of 40 milliseconds or greater shall cause a fault indication. A pulse length of 2 milliseconds or less shall not cause a fault indication.

Terminal strength:

Rigid type solder terminals: Test condition A (3 pounds, minimum).

Wire type solder terminals: Test condition A (3 pounds, minimum).  
Test condition C (1 pound, minimum).

Random vibration: Test condition D, curve 1, 30 minutes test time; applies to all dash numbers.

Marking of solder terminals: The terminals shall be identified by number as shown on figure 1. The positive terminal shall be identified by a red dot.

Extent of qualification: Qualification testing and approval of M83287/02-01 and M83287/02-52 shall be sufficient to grant qualification approval for all indicators covered by this specification sheet.

Part or Identifying Number (PIN): The term Part or Identifying Number (PIN) is equivalent to the term part number which was previously used in this specification. The PIN consists of "M" prefix followed by specification sheet number, and the dash number (see table I) as shown in the following example:

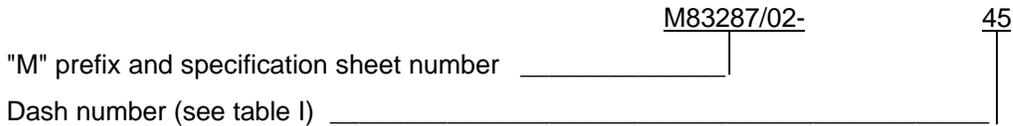


TABLE I. Electrical characteristics.

Dash number	Voltage (volts, dc)			DC coil resistance at					
	Rated	Operating		-55°C		+125°C		Ambient	
		<u>1/</u> Min	Max	Min	Max	Min	Max	<u>2/</u> Min	Max
01 through 08	28	22.4	30.0	425	575	951	1233	675	880
09 through 16 <u>3/</u>	28	16.0	30.0	216	315	498	705	360	500
17 through 20	28	17.0	30.0	236	552	528	1182	375	850
21 through 24	28	22.4	30.0	425	575	951	1233	675	880
25 through 28 <u>3/</u>	28	16.0	30.0	216	315	498	705	360	500
29 through 40	12	10.0	14.4	76	160	180	320	130	230
41 through 52	5	4.2	6.0	11	25	25	50	19	35

1/ Refers to the minimum operating voltage which the indicator must operate.

2/ For both the set and reset coils.

3/ For use with nonregulated power systems (see MIL-STD-704).

TABLE II. Physical characteristics.

Dash numbers	Diodes	Termination type	Anti-reflection coating	Configuration	
01	No	Wire leads	No coating	A	
02	Yes				
03	No				
04	Yes				
05	No	Solder terminals	With coating		
06	Yes				
07	No				
08	Yes				
09	No	Wire leads	No coating	A	
10	Yes				
11	No				
12	Yes				
13	No	Solder terminals	With coating		
14	Yes				
15	No				
16	Yes				
17	No	Wire leads	No coating	A	
18	Yes				
19	No				
20	Yes				
21	No	Wire leads	No coating		B
22		Solder terminals			
23		Wire leads			
24		Solder terminals			
25	No	Wire leads	With coating		
26		Solder terminals	No coating		
27		Wire leads	With coating		
28		Solder terminals			
29	No	Wire leads	No coating	A	
30	Yes				
31	No				
32	Yes				
33	No	Solder terminals	With coating		
34	Yes				
35	No				
36	Yes				
37	No	Wire leads	No coating	B	
38		Solder terminals			
39		Wire leads			
40		Solder terminals			
41	No	Wire leads	No coating		A
42	Yes				
43	No				
44	Yes				
45	No	Solder terminals	With coating		
46	Yes				
47	No				
48	Yes				
49	No	Wire leads	With coating	B	
50		Solder terminals			
51		Wire leads			
52		Solder terminals			
	No		No coating		

Supersession data: See table III.

TABLE III. Supersession information.

Superseding military PIN's M83287/02-	Superseded military PIN's
02	M83287-13
06	M83287-14
10	M83287-17
14	M83287-18

CONCLUDING MATERIAL

Custodians:  
Navy - AS  
Air Force - 11  
DLA – CC

Review activities:  
Air Force – 82

Preparing activity:  
DLA - CC  
( Project: 6625-0896)