

INCH-POUND

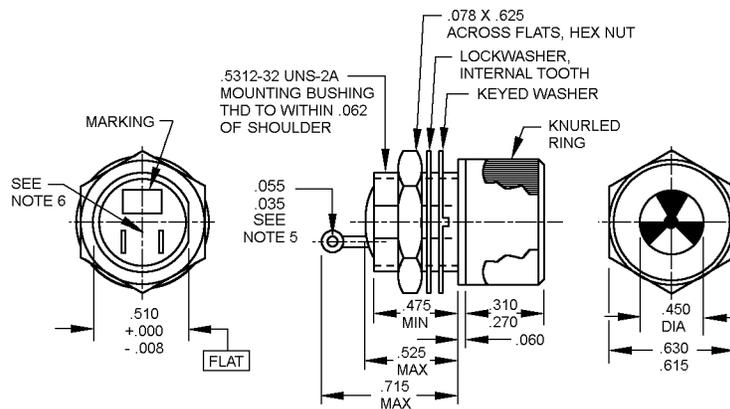
MIL-PRF-83287/1D
w/AMENDMENT 1
12 December 2013
SUPERSEDING
MIL-PRF-83287/1D
15 February 2007

PERFORMANCE SPECIFICATION SHEET

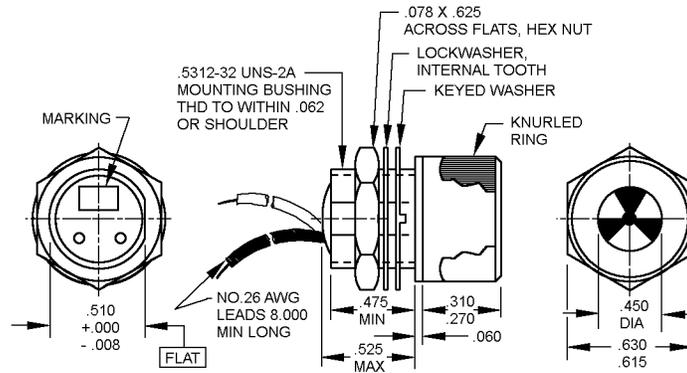
INDICATORS, FAULT LOCATING, FLAG INDICATING, MECHANICAL RESET

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-PRF-83287.



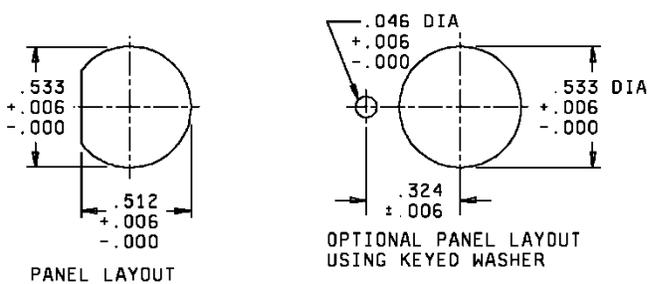
SOLDER TERMINALS



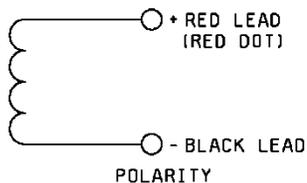
WIRE LEADS

FIGURE 1. Dimensions and configurations.

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Inches	mm
.006	0.15
.008	0.20
.035	0.89
.046	1.17
.055	1.40
.060	1.52
.062	1.57
.078	1.98
.250	6.35
.310	7.87
.324	8.23
.450	11.43
.475	12.07
.510	12.95
.512	13.00
.515	13.08
.5312	13.492
.533	13.54
.615	15.62
.625	15.88
.630	16.00
.715	18.16
8.000	203.20



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for 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.

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REQUIREMENTS:

Dimensions and characteristics: See figure 1 and table I.

Weight (including hardware): 0.031 pound (14 grams), maximum.

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).

Marking of solder terminals: The positive terminal shall be identified by a red dot.

Extent of qualification: Qualification testing and approval of M83287/01-01, M83287/01-29 and M83287/01-36 shall be sufficient to grant qualification approval for all indicators covered by this specification sheet. Qualification testing and approval of M83287/01-01 and M83287/01-28 shall be sufficient to grant qualification approval for dash numbers 01 through 28.

Part or Identifying Number (PIN): M83287/01- (dash number from table II).

Random vibration (dash numbers 29 through 36 only): Test condition D, curve 1, 30 minutes test time.

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TABLE I. Indicator characteristics.

Military PIN M83287/01-	Voltage (volts, dc)		DC coil resistance (ohms) at						Anti-reflection coating	Termination type	
	Rated	Operating		-65°C		+125°C		Ambient (+25°C)			
		Min 1/	Max	Min	Max	Min	Max	Min			Max
01	3	2.4	3.6	4.8	12	12	27	8.5	18	No coating	Wire leads
02										Solder terminals	
03										With coating	Wire leads
04										Solder terminals	
05	5	4.0	6.0	13	34	30	73	22	52.8	No coating	Wire leads
06										Solder terminals	
07										With coating	Wire leads
08										Solder terminals	
09	6	4.8	7.2	19.8	50	45.7	107	33	77	No coating	Wire leads
10										Solder terminals	
11										With coating	Wire leads
12										Solder terminals	
13	12	9.6	14.4	78	198	180	420	130	303	No coating	Wire leads
14										Solder terminals	
15										With coating	Wire leads
16										Solder terminals	
17	24	19.2	28.8	318	572	734	1223	530	880	No coating	Wire leads
18										Solder terminals	
19										With coating	Wire leads
20										Solder terminals	
21	28	22.4	30.0	432	869	997	1850	720	1331	No coating	Wire leads
22										Solder terminals	
23										With coating	Wire leads
24										Solder terminals	
25 2/	28	16.0	30.0	216	796	499	1703	360	1225	No coating	Wire leads
26 2/										Solder terminals	
27 2/										With coating	Wire leads
28 2/										Solder terminals	
Indicators below have vibration characteristics											
29	5	4.0	6.0	13.2	34	30	73	22	52.8	No coating	Wire leads
30										Solder terminals	
31										With coating	Wire leads
32										Solder terminals	
33	24	19.2	28.8	318	572	734	1223	530	880	No coating	Wire leads
34										Solder terminals	
35										With coating	Wire leads
36										Solder terminals	

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

2/ For use with non-regulated power systems (see MIL-STD-704).

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TABLE II. Cross-reference.

Superseding military PIN M83287/01-	Superseded military PIN	
01	M83287-01	M81663/2-01
02	---	
03	M83287-02	
04	---	
05	M83287-03	
06	---	
07	M83287-04	
08	---	
10	---	
11	M83287-06	
12	---	
13	M83287-07	M81663/2-03
14		
15	M83287-08	
16	---	
17	M83287-09	M81663/2-04
18	---	
19	M83287-10	
20	---	
21	M83287-11	M81663/2-05
22	---	
23	M83287-12	
24	---	
25	M83287-15	
26	---	
27	M83287-16	
28	---	
Indicators below have vibration characteristics		
29	M83287-03	
30	---	
31	M83287-04	
32	---	
33	M83287-09	M81663/2-04
34	---	
35	M83287-10	
36	---	

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Amendment notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations.

Referenced documents. In addition to MIL-PRF-83287, this document references the following:

MIL-STD-704

CONCLUDING MATERIAL

Custodians:

Army – AV
Navy - AS
Air Force - 11
DLA – CC

Preparing activity:

DLA - CC

(Project 6625-2013-036)

Review activities:

Army – MI
Air Force – 84

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>.