

NIS-09 型烟雾传感器技术特性

SPECIFICATIONS

December 15, 1995

1. Scope :

This specification sheet is for Ionization Smoke Chamber Model NIS-09 manufactured by Nemoto & Co., Ltd., Tokyo, Japan for applications to smoke detectors.

2. Method of detection :

Ionization type, 2 chambers with a source

3. Radiation source :

Nuclide ; Americium 241

Radioactivity ; 29K~37KBq. (Ave. 33.3 KBq. = 0.9 μ Ci)

4. Operational conditions :

Power supply ; DC 7.0~12.0 V

Ambient conditions ; Temperature 0~50°C

Humidity Less than 95%

5. Maximum ratings :

Supply voltage ; DC 24 V

Operational conditions ; Temperature 0~50°C

Humidity Less than 95%

(No dew condensation)

Storage conditions ; Temperature -25~80°C

Humidity Less than 95%

6. Shape, dimensions, weight ;

Shape ; As per attached drawing

Dimensions ; " " " "

Weight ; 11 g.

7. Ratings :

Test conditions; at 25°C, 60% RH

Items	Specifications
Supply voltage	DC 9V
Current consumption	27 ± 3 pA
Output voltage	5.6 ± 0.4 V in clean air
Sensitivity	0.6 ± 0.1 V at 2%/foot of smoke

(Tested according to UL 217)

8. Characteristics :

8-1. Sensitivity characteristics

Table 1 Test conditions; at 25°C, 60% RH

Smoke Concentration (%/foot)	Variation (ΔV)
0	0
1	0.3 ± 0.1
2	0.6 ± 0.1
3	0.9 ± 0.1
4	1.2 ± 0.1
5	1.4 ± 0.1

Gray smoke test according to UL 217
Air velocity; 0.16m/sec.

8-2. Supply voltage dependency

Table 2 Test conditions; at 25°C, 60% RH

Supply voltage (V)	Output voltage (V)
6	3.3 ± 0.3
9	5.6 ± 0.4
12	8.0 ± 0.55

8-3. Temperature & Humidity dependency

Table 3 Temperature dependency

Temperature (°C)	Output (V)
0	5.35 ± 0.4
25	5.6 ± 0.4
50	5.85 ± 0.4

(Humidity; 60% RH)

Table 4 Humidity dependency

Humidity (%C)	Output (V)
30	5.75 ± 0.5
60	5.6 ± 0.4
90	5.45 ± 0.5

(Temperature; 25°C)

9. Durability tests :

9-1. Heat resistance test

Test method	Criteria
Under $+80^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 72 hrs. without electrified	To maintain the characteristics shown in Heading No. 8 after test. To show neither deforming, nor discoloring, nor cracks.

9-2. Low temperature resistance

Test method	Criteria
Under $-30^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 72 hrs. without electrified	To maintain the characteristics shown in Heading No. 8 after test. To show neither deforming, nor discoloring, nor cracks.

9-3. High humidity resistance

Test method	Criteria
Under $+40^{\circ}\text{C}\pm 5^{\circ}\text{C}$ & $85\pm 5\%$ RH for 72 hrs. without electrified	To maintain the characteristics shown in Heading No. 8 after test. To show neither deforming, nor discoloring, nor cracks.

9-4. Vibration test

Test method	Criteria
Vibrated with amplitude of 0.25mm at every 5Hz from 10~35Hz for 15 min. with sympathetic vibration. If no sympathetic vibration occurs, to be vibrated at 35Hz for 4 hours.	To maintain the characteristics shown in Heading No. 8 after test. To show neither deforming, nor discoloring, nor cracks.

9-5. Impact test

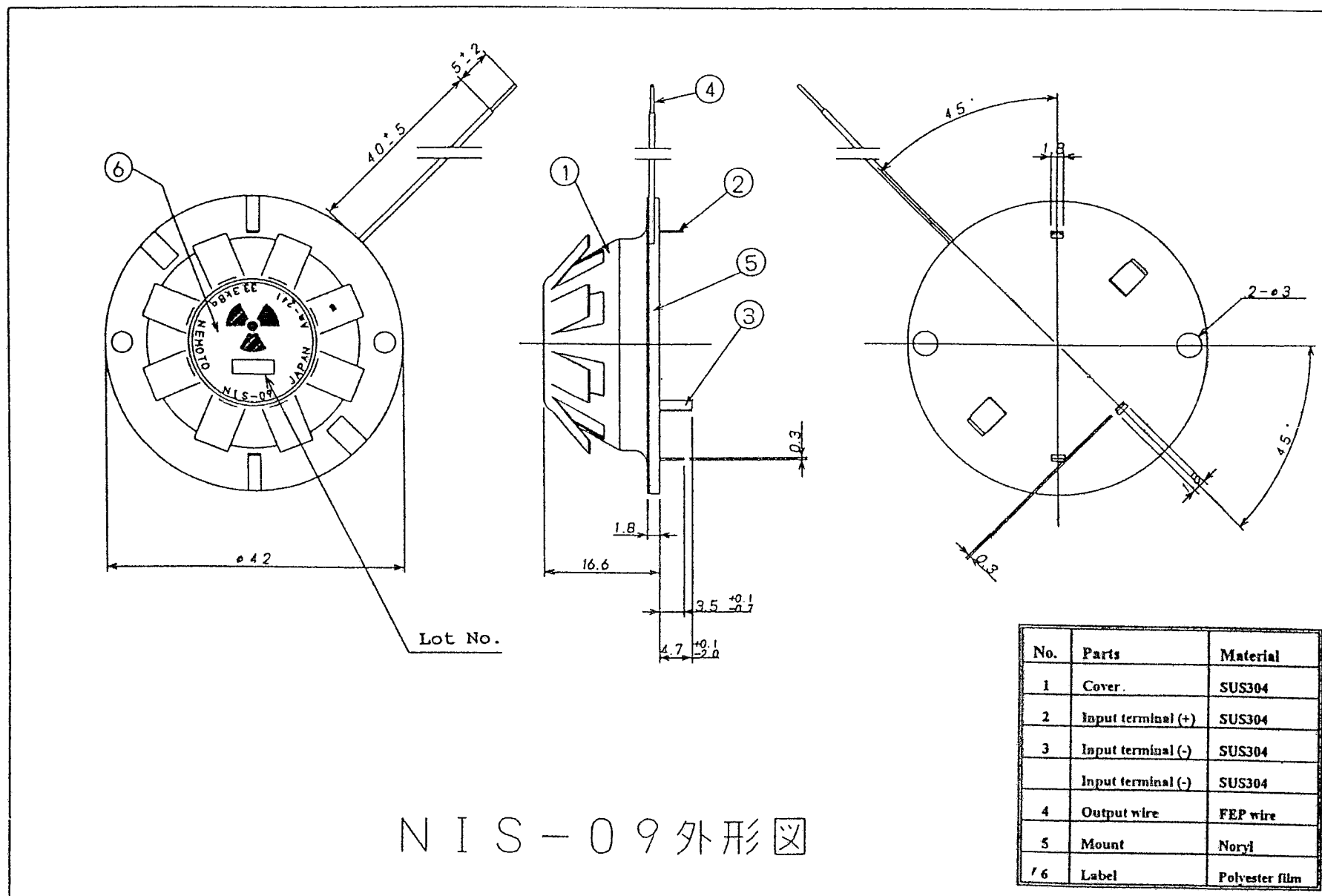
Test method	Criteria
Dropped from a height of 1m on to a wooden plate with 3 different directions.	To maintain the characteristics shown in Heading No. 8 after test. To show neither deforming, nor discoloring, nor cracks.

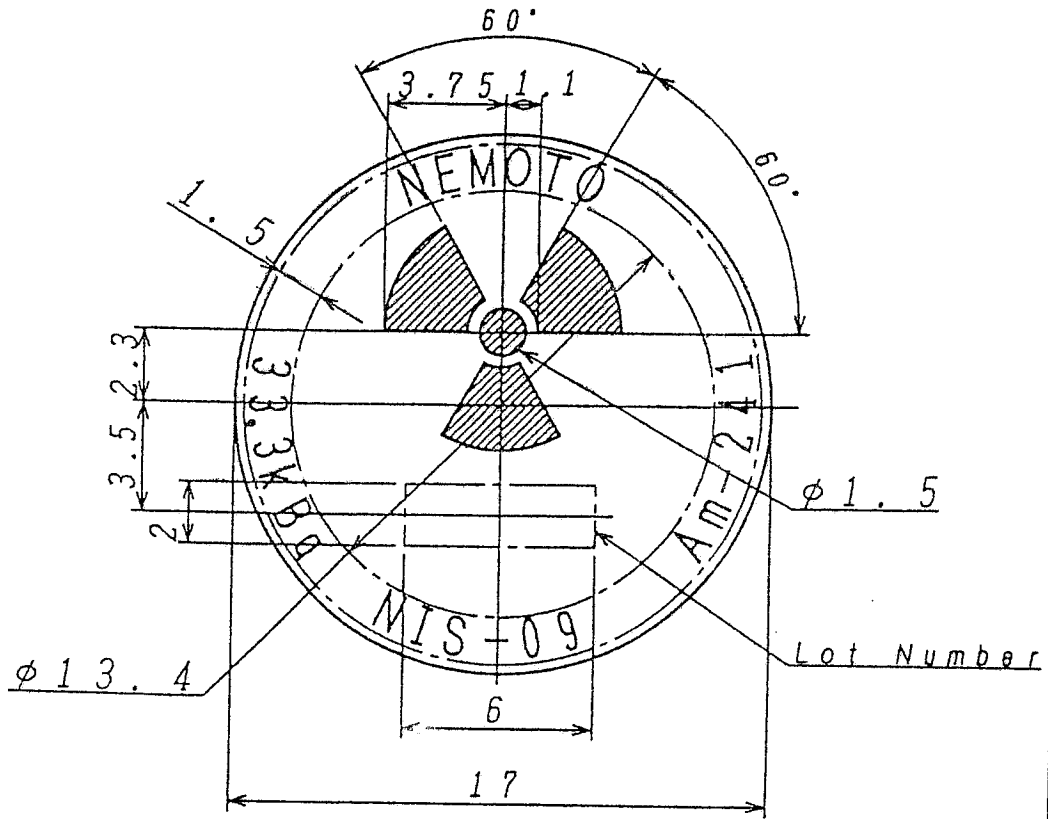
10 Packing

1,000 pieces are packed in an export carton.

Size ; 435(D) x 490(W) x 275(H) mm

Gross weight ; 14 Kgs.





Lot numbering

51574 = Manufactured in January, 1995

Example ;

5 1 5 7 4

5 for the year of 1995

Month : 1~9 = January to September

October = X

November = Y

December = Z

Individual inspection number

 : Black

	APPROVED	CHECKED	DESIGNED	DRAWN	MATERIAL	Q.TY	SCALE	
						1	5/1	
TITLE					DATE	ORG.NO.		
NIS-09 LABEL					Nov, 29, 1995	G-01-04-083B		
NEMOTO & CO., LTD								

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