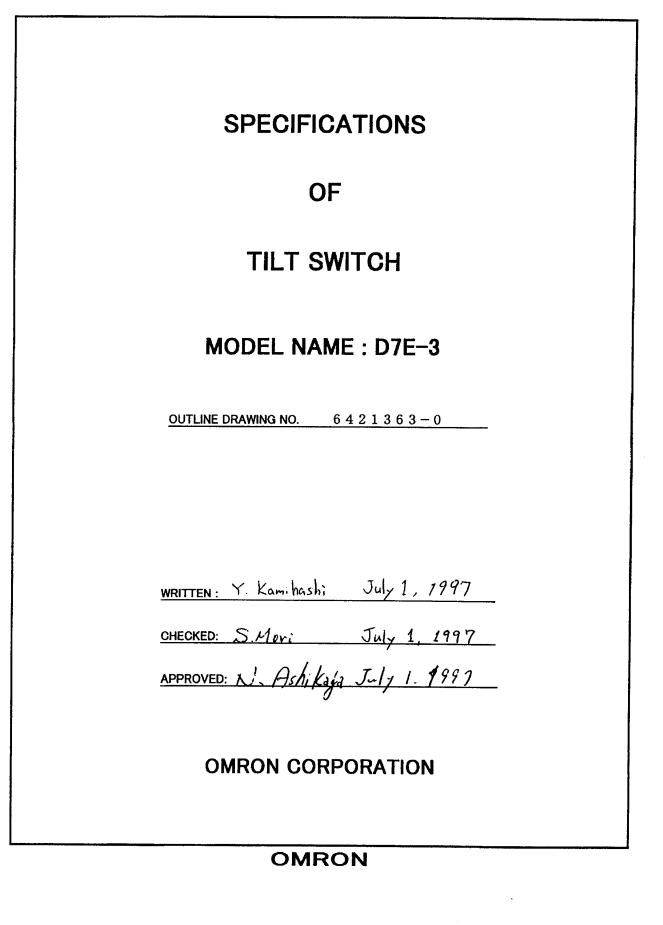
<u>REF.NO. 1778230 - 9(1/5)</u>



| 1. CONSTRUCTION | |
|--------------------------------|---|
| 1-1 Outline dimensions | DRWG. No. 6421363-0 |
| | |
| 1-2 Switching mechanism | To output the ON/OFF signal by mechanical switching |
| | of the internal switch contact by moving a ball inside with the tilt. |
| 1-3 Enclosure rating | IP67 (Only internal switch) |
| 1~4 Operating angle | Operate with the tilt of 50 to 80 degrees.(ON \rightarrow OFF) |
| | Angle : degree when tilting gradually (approx. 1 degree/s) |
| | from the horizontal. |
| 1–5 Returning angle | Return with the tilt of more than 25 degrees |
| | Angle : degree when returning gradually(approx. 1 degree/s) |
| | from operating condition |
| 1–6 Permissible mounting level | 1 degree max. from the horizontal |
| 1-7 Contact form | Single pole single throw (NC contacts / slow action) |
| 1-8 Terminal | #187 quick connect /solder terminal (thickness=0.5mm) |
| 1-9 Mounting | Pitch: 30mm 2 screws(M3) |
| | Height of the product : 5.3mm (Please refer to drawing in detail.) |
| 1-10 Soldering | Soldering iron : temperature 350 ± 10 °C, 3 second max. |
| | |
| | |
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| 2-1 Ratings | | | 5VDC, 0.1mA to 30VDC, 100mA (Resistive load) | | |
|-------------|-------------------|-----------------------|--|--------------------------------|--|
| 2-2 in: | sulation resistan | nce and dielectric st | trength | | |
| | \square | | insulation | Dielectric* | |
| | | | resistance | strength | |
| | Measuring | parts | (250 VDC Megger) | (50 to 60 Hz 1 min.) | |
| | Between ea | ach terminal ** | | | |
| | of the same | e polarity | 100 M Ω min. | 250 VAC | |
| | * Leak.cu | rrent is 1mA max. | | | |
| | | sure off condition | | | |
| | The To Mod | | | | |
| 2-3 C | ontact resistanc | e | 100 m Ω max. (Initial value) | | |
| | | | | | |
| . MEC | HANICAL CHAR | ACTERISTICS | | | |
| 3-1 Vi | bration during t | ransporting | | | |
| | Must be free fr | om any malfunction | is both electrically and mecha | anically | |
| | Condition | Vibration | : 200 Gal (1cycle : 0.5 sec | onds) | |
| | | Vibration direction | n : in the 2 axial directions | | |
| | | Time | e : Total 50 hours | | |
| 3-2 SI | nock | | | | |
| | Must be free fr | rom any malfunction | ns both electrically and mecha | anically | |
| | Condition | Acceleration | : 980 m/s ² (100G) 3 time | 5 | |
| | | Shock direction | : in the three axial direction | าร | |
| 2-2 5 | nock during tran | ecorting | | | |
| 000 | | | ns both electrically and mecha | anically | |
| | | | | high toward a composite plate. | |
| | (thickness 30m | | | | |
| | \anaiaiaaa adii | | | | |
| 3-4 T | erminał strength | I | | | |
| | Must be free fr | rom any malfunctior | ns both electrically and mecha | anically (Refer to Note2.) | |
| | | | vertically and 49N horizontal | 4 4 | |

4. ENVIRONMENT CHARACTERISTICS

4-1 Operating temperature and humidity

Temperature $:-25^{\circ}$ to + 60 $^{\circ}$ (No icing and condensation)

Humidity : 45 to 95 %RH

4-2 Storage temperature and humidity

Temperature $:-25^{\circ}$ to $+60^{\circ}$ (No icing and condensation)

Humidity : 45 to 95 %RH

5. ENDURANCE CHARACTERISTICS

5-1 Salt spray

The switch is sprayed with 5 ± 0.5 % salt water for 96 hours.

No remarkable corrosion is allowed and must be free from any malfunctions both electrically and mechanically

Contact resistance should be 100 Ω max. (To measure after salt is removed by water and the switch dries well.)

5-2 Moisture Endurance

Must be free form any malfunctions both electrically and mechanically after the switch is left in a temperature of 40 ± 2 °C and humidity of 90 to 98%RH for 240 hours.(To measure after the switch dries well.)

5-3 Oil Endurance

Change of weight must be 20% max. after the switch is dipped in Gasoline 1 at $20\pm5^{\circ}$ for 24 hours.

5-4 Heat Endurance

Must be free from any malfunctions both electrically and mechanically after the switch is left in a temperature of 70 ± 5 °C for 96 hours.

5-5 Cold Endurance

Must be free from any malfunctions both electrically and mechanically after the switch is left in a temperature of $-35\pm5^{\circ}$ for 96 hours.

5-6 High temperature/humidity

Must be free from any malfunctions both electrically and mechanically after the switch is left in a temperature of 70 ± 2 °C and humidity of 90 to 98%RH for 240 hours.

5-7 Corrosive gas

H₂S: 3±1ppm, SO₂: 10±3ppm, 40°C, 75%RH, 96 hours

Must be free from any malfunctions both electrically and mechanically after the switch is left under above condition.

6. ELECTRICAL SERVICE LIFE

Must be free from any malfunctions both electrically and mechanically after 5,000 operations under the rated resistive load of 30VDC, 100mA at a frequency of 10 to 20 operations per minute.

7. OTHERS

Note1.

1) If mounting surface is warped, there is a possibility that switch performance might be changed because of switch deformation when it's mounted. (Warp of mounting surface : 0.3mm max.)

Use two M3 screws with spring washers to mount the switch.

Tighten the screws to a torque of 0.4N to 0.6N·m (4 to 6kgf·cm).

- Do not set the switch where its mechanically characteristics is affected badly, like door opening, car passage and other vibration and shock.
- 3) Do not put the switch in direct sunshine.
- 4) Mechanical deterioration caused by water cleaning, water covered, leak of oil and other organic solvent. Is not guaranteed by us.

Note2.

To be evaluated as "free from any malfunctions both electrically and mechanically" the switch must satisfy following requirements.

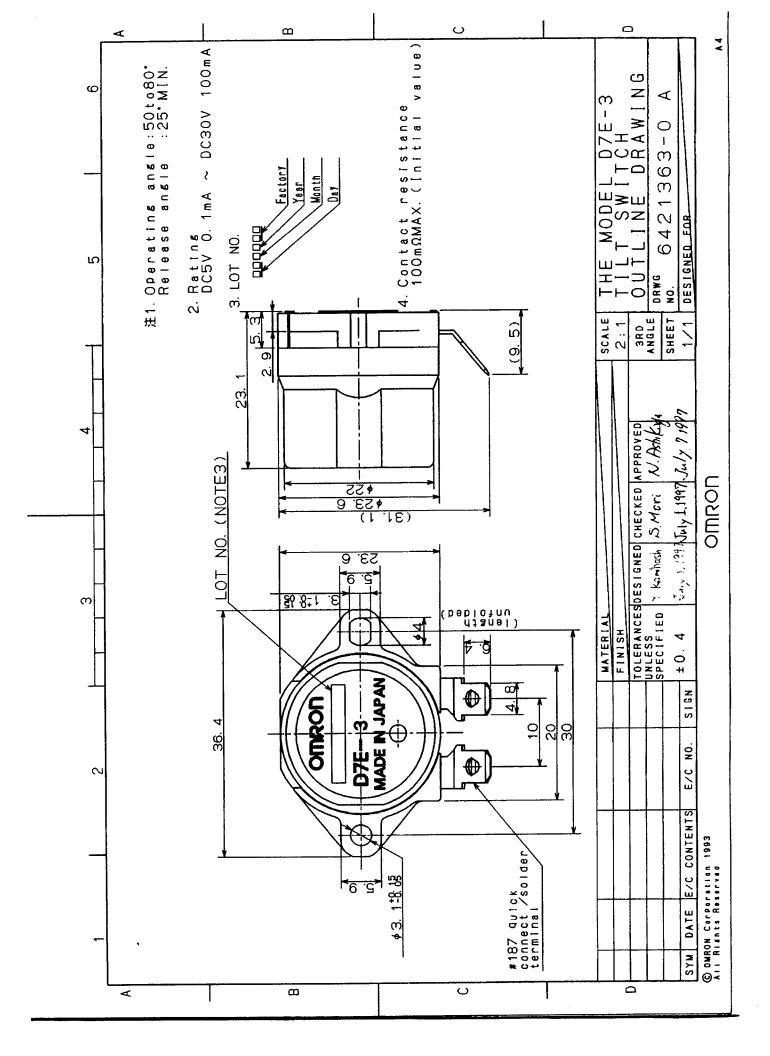
| 1) Operating angle | More than \pm 20% of specified range is not acceptable | | |
|--------------------------|--|--|--|
| Releasing angle | More than \pm 20% of specified range is not acceptable | | |
| 2) Contact resistance | 1 Ω max. | | |
| 3) Insulation resistance | 10MΩmin. (250VDC meggar) | | |
| 4) Dielectric strength | 250VAC 50/60Hz for 1 minute (Leak current : 1mA max.) | | |

Note3.

This specification is invalid if we receive no approval or no order replacement of yours within a year since this is submitted. In a case of service parts, we will replace with new specifications.

Note4.

Others not included in this specifications are subjects to change without notice



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