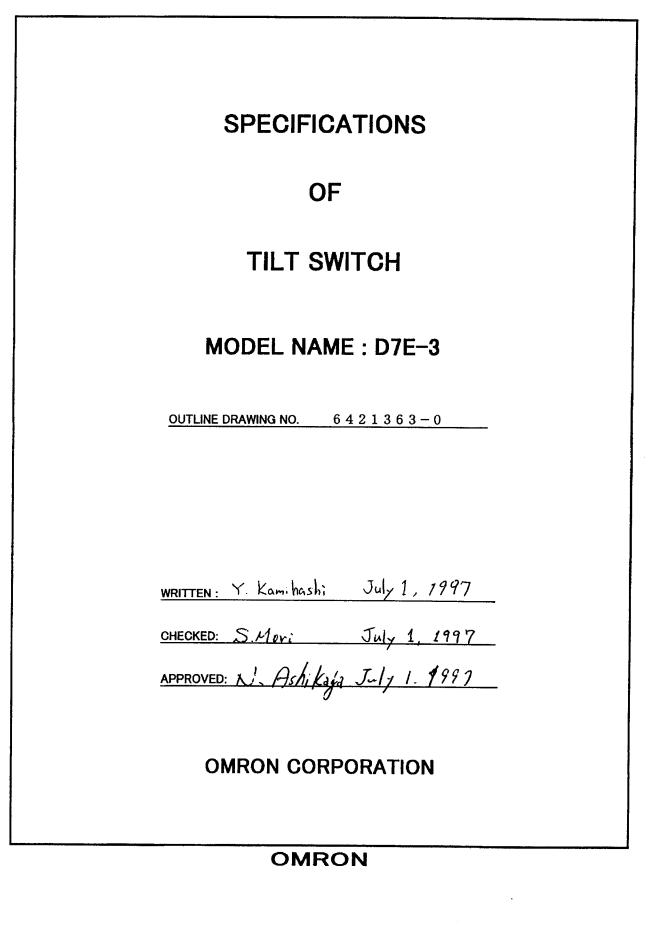
<u>REF.NO. 1778230 - 9(1/5)</u>



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.

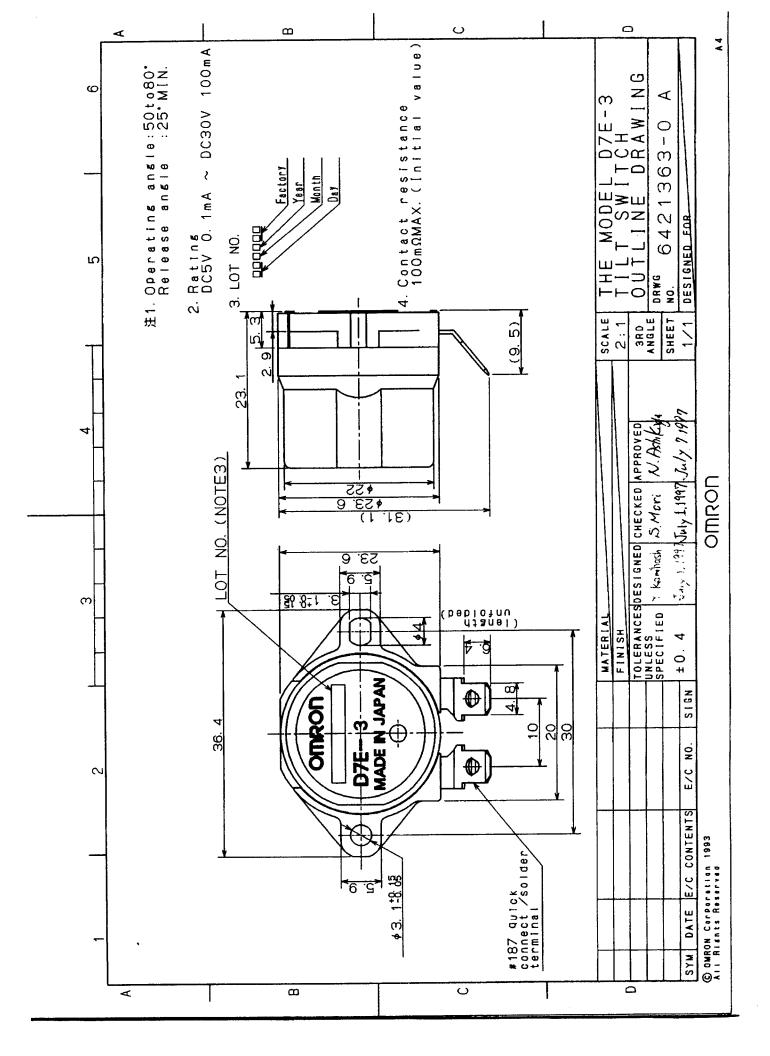
1) Operating angle	More than \pm 20% of specified range is not acceptable		
Releasing angle	More than \pm 20% of specified range is not acceptable		
2) Contact resistance	1 Ω max.		
3) Insulation resistance	10MΩmin. (250VDC meggar)		
4) Dielectric strength	250VAC 50/60Hz for 1 minute (Leak current :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