

OMRON TATEISI ELECTRONICS CO.

HEAD OFFICE : 10 TSUCHIDO-CHO, HANAZONO, UKYO-KU, KYOTO 818 JAPAN
PHONE: 075-483-1181 CABLE ADDRESS: OMRONELCO KYOTO

OMRON R&D LAB : SHIMO-KAIINJI, NAGAOKAKYO-CITY, KYOTO 817, JAPAN
PHONE: 075-921-5111, TELEX: 05488-848, CABLE ADDRESS: OMRONELCO CELAB

SALES OFFICE : 1-3-2, SHIBA DAIMON, MINATO-KU, TOKYO, 105, JAPAN
PHONE: 03-436-7281 TELEX: 242-4086, 4087 CABLE ADDRESS: OMRONELCO TOKYO

RefNo. **Ⓢ EMS-D2MS-0089(1/3)**

17/30

SPECIFICATION

OF

MINIATURE BASIC SWITCH

TYPE NAME : OMRON TYPE *D2MSL*

UL, CSA FILE No.
UL --- E32067
CSA --- LR21642

WRITN May. 12. '81 T. Hirata
CHKD May. 13. '81 ed. Nomazane
APPD May 13 '81 T. Shirai

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 PHONE: 03-436-7261 TELEX: 242-4086. 4087 CABLE ADDRESS: OMRONELCO TOKYO
 Ref: **Q-FMS-D2MS-0089 (2/3)**

1. CONTACT ARRANGEMENT

Single-pole double throw

2. OPERATING CHARACTERISTICS

OPERATING FORCE	7.5 g	MAX
RELEASE FORCE	4 g	MIN
PRETRAVEL	—	
OVERTRAVEL	0.8 mm	MIN
MOVEMENT DIFFERENTIAL	1 mm	MAX
OPERATING POSITION	8.8 ± 1 mm	
FREE POSITION	13.6 mm	MAX

3. CONTACT SEPARATION

$G: 0.5 \text{ mm}$

4. RATINGS

3A 250V AC.

5. LIFE

5.1 Mechanical Life

500,000 operations

5.2 Electrical Life

50,000 operations

6. ALLOWABLE RUSH CURRENT

Normally closed contact : 20 A

Normally open contact : 10 A

7. DIELECTRIC STRENGTH

Between non-continuous terminal 1 minute 1000 V AC

Between each terminal and non-charged metal part 1 minute

1500 V AC

Between each terminal and earth (use separator) 1 minute

1500 V AC

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PHONE: 83-436-7281 TELEX: 242-4086. 4087 CABLE ADDRESS: OMRONELCO TOKYO

19/30

RefNo. **Q-EMS-D2MS-0029 (3/3)**

8. INSULATION RESISTANCE

100M Ω min. (500 V insulation resistance tester)

Places to be measured are the same with those specified in the section 7.

9. CONTACT RESISTANCE

50 m Ω max. (measured by voltmeter-ammeter method under 1 A)

10. TEMPERATURE RISE

30 °C max.

To be measured at the contact after the make and break test of 6,000 operations at the rating.

11. ATMOSPHERE

11.1 Temperature

-15 °C to +65 °C (Less than 60% RH)

11.2 Humidity

70 %RH (RH : Relative Humidity)

(5 °C to 35 °C of ambient temperature)

12. SHOCKS

30G max. *TTP*

(*TTP : Total Travel Position*)

13. VIBRATIONS

Double amplitude Less than 1.5 mm

Number of vibration 10 ~ 55 cps *TTP*

14. ALLOWABLE OPERATING SPEED

1 mm per second to 1 m per second

15. OPERATING FREQUENCY

400 Operation per minute

16. STRENGTH

Terminal 2 Kg per 1 minute

Actuator 0.75 Kg per 1 minute

1. CHARACTERISTICS

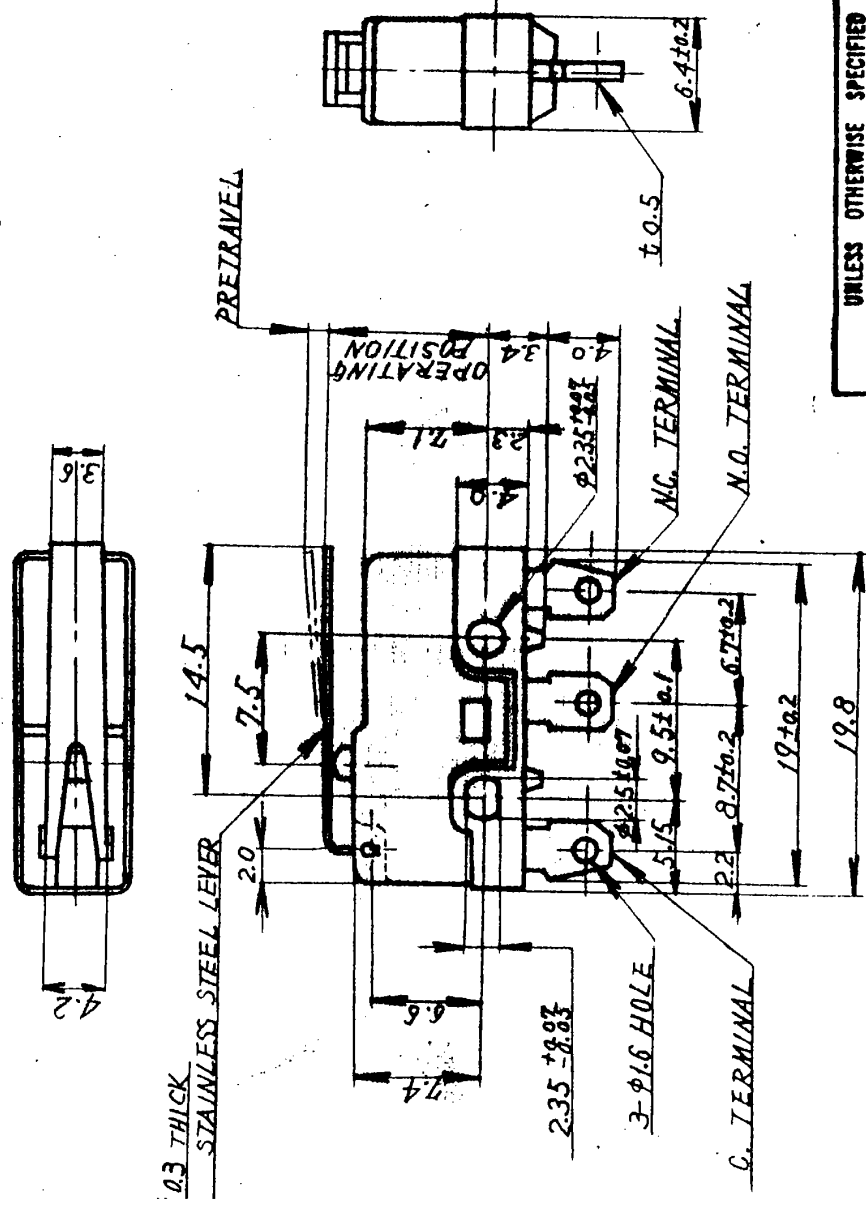
TYPE	D2MSL
OPERATING FORCE	75 g MAX
RELEASE FORCE	4 g MIN
PRETRAVEL	
OVERTRAVEL	0.8 mm MIN
MOMENT DIFFERENTIAL	1 mm MAX
OPERATING POSITION	8.8 ± 1 mm
FREE POSITION	13.6 mm MAX

2. ELECTRICAL RATING

3A 250V AC.

3. CONTACT ARRANGEMENT

SINGLE POLE DOUBLE THROW.



UNLESS OTHERWISE SPECIFIED TOLERANCES ON DECIMALS: ±0.4

DATE	02/08/79	FIG. NO.	01	REVISION	SIG
DESIGNED: May 11, 81 DRAWN: May 11, 81 CHECKED: May 13, 81 APPROVED: May 13, 81 R/S: T. Kato, S. Ishikawa, Y. Yamashiro, T. Shirai					
R/S SCALE: 2.5/1 第三角法 第三角制 PROJECTION: 第三角法 第三角制 SHEET NO.: 1 DWG. NO.: D2MS-R-30389 REV: A					
使用形式 APPLICATION		TYPE D2MSL			
SUB MINIATURE BASIC SWITCH					
CONTOUR DIMENSIONS					