

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-KAINJI, 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 --- E32867
CSA --- LR21642

WRITN May. 12. '81 T. Hirata

CHKD May. 13. '81 ed. Homozane

APPD May 13 '81 T. Shira

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HEAD OFFICE : 10 TSUCHIDO-CHO, HANAZONO, UKYO-KU, KYOTO 618 JAPAN
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 Ref: **(P-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

S: 0.5 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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□ HEAD OFFICE : 10 TSUCHIDO-CHO, HANAZONO, UKYO-KU, KYOTO 816 JAPAN
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PHONE: 83-436-7281 TELEX: 242-4086. 4087 CABLE ADDRESS: OMRONELCO TOKYO

19/30

RefNo. (R)-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

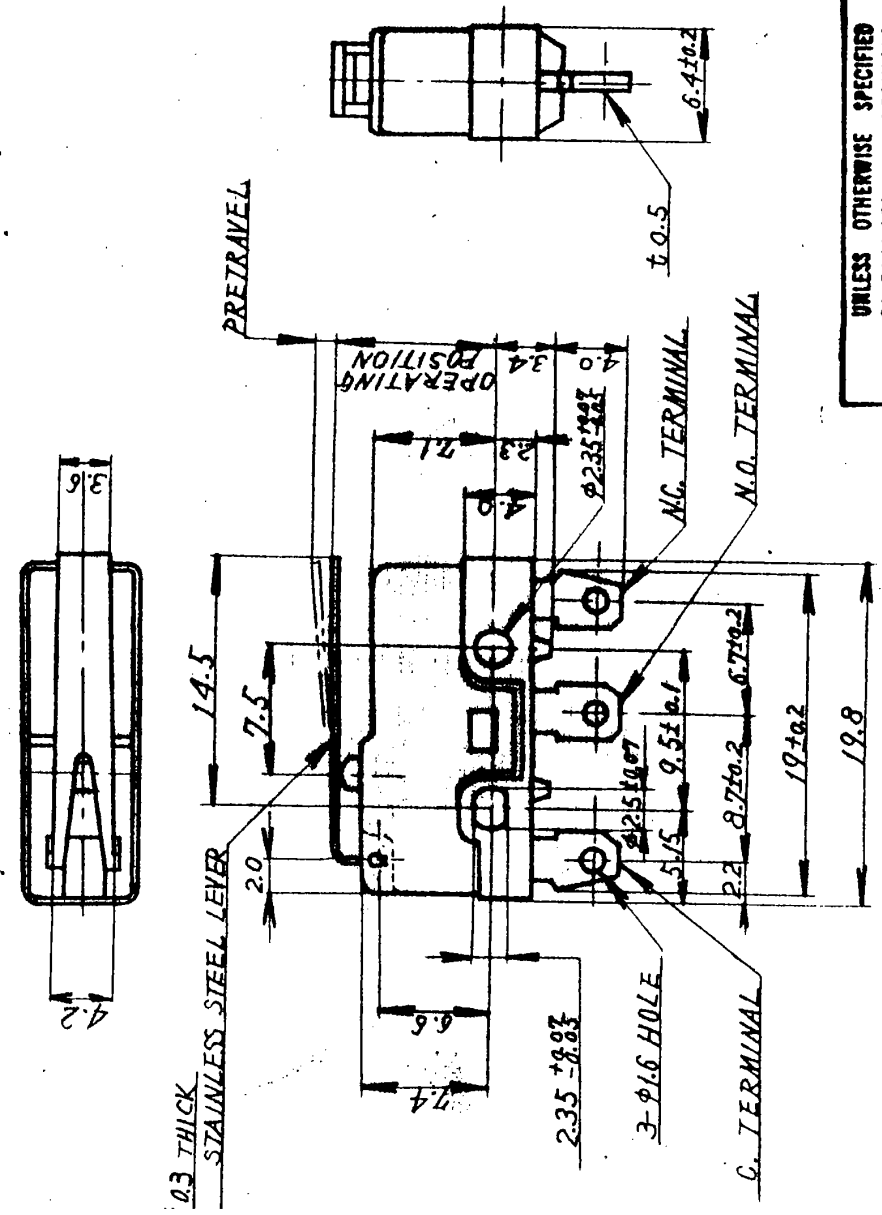
TYPE	D2MSL
OPERATING FORCE	7.5 g MAX
RELEASE FORCE	4 g MIN
PRETRAVEL	
OVERTRAVEL	0.8 mm MIN
MOMENT DIFFERENTIAL	1 mm MAX
OPERATING POSITION	8.8 ± 1 mm
FREE POSITION	13.6 mm MAX

2. ELECTRICAL RATING

3A 250V. AC.

3. CONTACT ARRANGEMENT

SINGLE POLE DOUBLE THROW.



UNLESS OTHERWISE SPECIFIED TOLERANCES ON DECIMALS: ±0.4

DATE	DESIGNED BY	DRAWN	CHECKED	APPROVED	SCALE
	May 11 '81	May 11 '81	May 11 '81	May 11 '81	2.5/1
					第三角法 3RD ANGLE PROJECTION
					SHEET NO.
					DWG NO.
					REV
					A

使用形式	APPLICATION
TYPE	D2MSL
	SUB MINIATURE BASIC SWITCH
	CONTOUR DIMENSIONS
	D2MS-R-30389