

## ► M4 SERIES ENCLOSED LIMIT SWITCHES

- Miniature Size.
- Wide range of choice.
- Protective grade conforms to IP 67.
- With 2m or 3m cable.(VCTF or SJTO cable).
- SJTO cable (UL approved)Oil resistance cord type.
- Standard type, Side out cable type, Quick connent type. (M12×1)

- 小型設計種類齊全
- 防油、防水程度佳，符合 IP67
- 標準品附2m或3m電纜線( VCTF或SJTO電纜)
- SJTO 電纜線為 UL 認證之耐油纜線
- 標準型、側出線型、快速連結型



### ◆ STANDARD TYPE/標準型

**ORDERING CODE:** M4 - 4101 - 2

Series code      Type NO.      Cable code

**Cable code : cable type ; cable length** 電纜規格、長度

VCTF Cable (0.75mm<sup>2</sup>×4c)      2 → 2m      3 → 3m

SJTO Cable (UL approved) (18AWG×4c)      2L → 2m      3L → 3m

### ELECTRICAL RATING

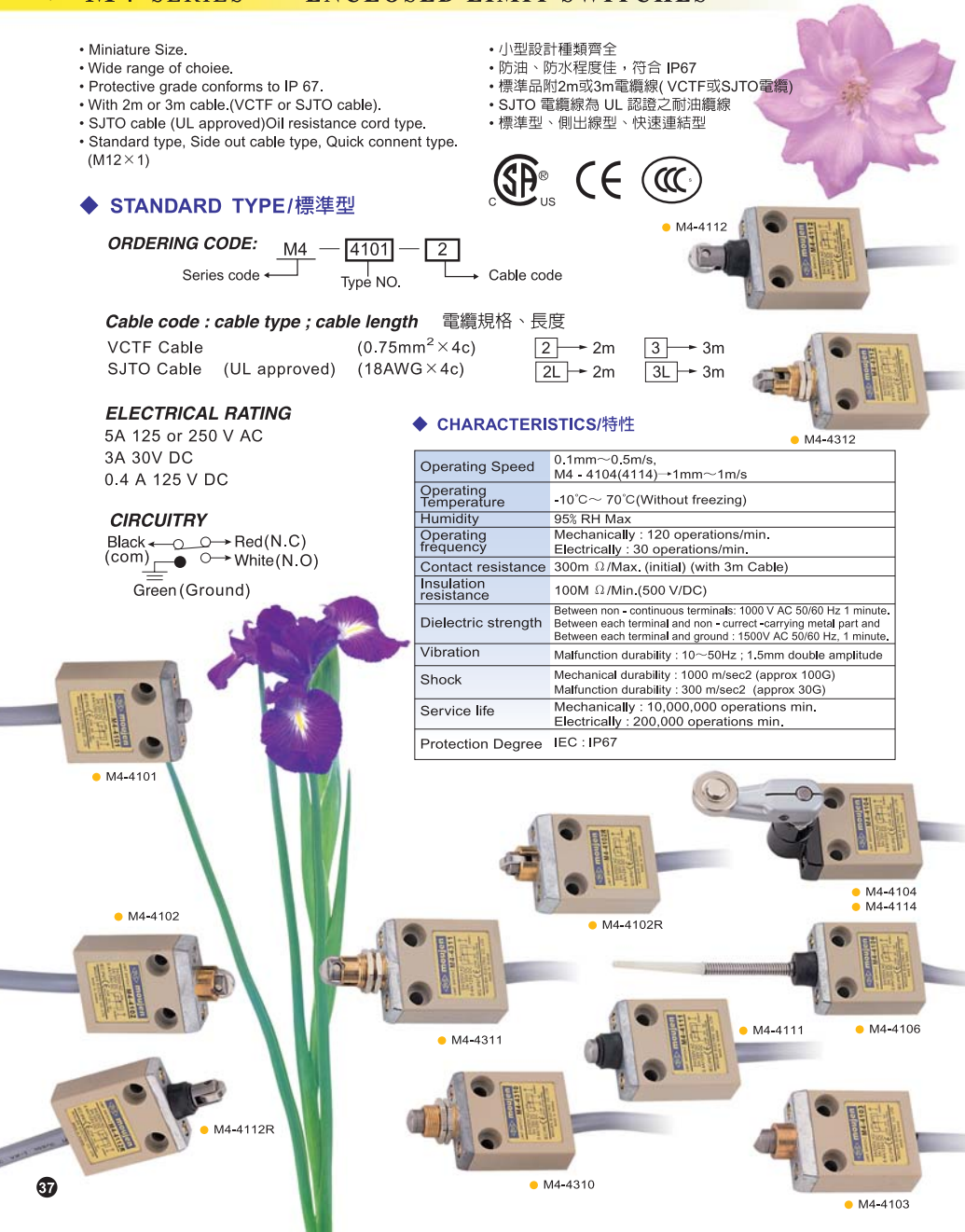
5A 125 or 250 V AC  
3A 30V DC  
0.4 A 125 V DC

### CIRCUITRY

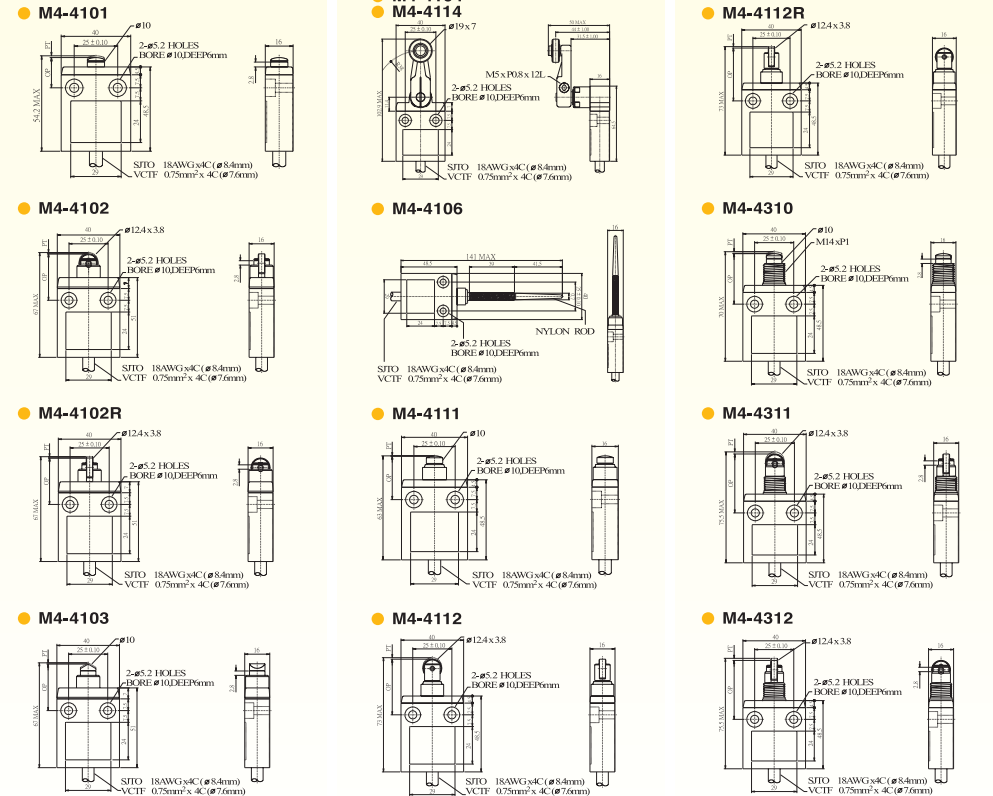
Black (com)      Red (N.C)  
Green (Ground)      White (N.O)

### ◆ CHARACTERISTICS/特性

Operating Speed	0.1mm~0.5m/s, M4-4104(4114)→1mm~1m/s
Operating Temperature	-10°C~70°C(Without freezing)
Humidity	95% RH Max
Operating frequency	Mechanically: 120 operations/min. Electrically: 30 operations/min.
Contact resistance	300m Ω/Max. (initial) (with 3m Cable)
Insulation resistance	100M Ω/Min.(500 V/DC)
Dielectric strength	Between non - continuous terminals: 1000 V AC 50/60 Hz 1 minute. Between each terminal and non - current-carrying metal part and Between each terminal and ground: 1500V AC 50/60 Hz, 1 minute.
Vibration	Malfunction durability: 10~50Hz; 1.5mm double amplitude
Shock	Mechanical durability: 1000 m/sec <sup>2</sup> (approx 100G) Malfunction durability: 300 m/sec <sup>2</sup> (approx 30G)
Service life	Mechanically: 10,000,000 operations min. Electrically: 200,000 operations min.
Protection Degree	IEC : IP67



### DIMENSIONS (mm)



### OPERATING CHARACTERISTICS

M4-4101	M4-4102	M4-4102R	M4-4103	M4-4104/M4-4114	M4-4106
OF MAX 1200g	OF MAX 1200g	OF MAX 1200g	OF MAX 1200g	OF MAX 580g	OF MAX 150g
RF MIN 450g	RF MIN 450g	RF MIN 450g	RF MIN 450g	RF MIN 150g	RF MIN 45g
PT MAX 1.8mm	PT MAX 1.8mm	PT MAX 1.8mm	PT MAX 1.8mm	PT MAX 25°	PT MAX 15°
OT MIN 3mm	OT MIN 3mm	OT MIN 3mm	OT MIN 3mm	OT MIN 40°	OT MIN 40°
MD MAX 0.2mm	MD MAX 0.2mm	MD MAX 0.2mm	MD MAX 0.2mm	MD MAX 3'	MD MAX 3'
OP 15.7±1mm	OP 28.5±1mm	OP 28.5±1mm	OP 28.5±1mm	OP *	OP *

M4-4111	M4-4112	M4-4112R	M4-4310	M4-4311	M4-4312
OF MAX 1800g	OF MAX 1800g	OF MAX 1800g	OF MAX 1200g	OF MAX 1200g	OF MAX 1200g
RF MIN 450g	RF MIN 450g	RF MIN 450g	RF MIN 450g	RF MIN 450g	RF MIN 450g
PT MAX 1.8mm	PT MAX 1.8mm	PT MAX 1.8mm	PT MAX 1.8mm	PT MAX 1.8mm	PT MAX 1.8mm
OT MIN 3mm	OT MIN 3mm	OT MIN 3mm	OT MIN 3mm	OT MIN 3mm	OT MIN 3mm
MD MAX 0.2mm	MD MAX 0.2mm	MD MAX 0.2mm	MD MAX 0.2mm	MD MAX 0.2mm	MD MAX 0.2mm
OP 24.9±1mm	OP 34.3±1mm	OP 34.3±1mm	OP 31.2±1mm	OP 36.8±1mm	OP 36.8±1mm

## ▶ M4 SERIES ENCLOSED LIMIT SWITCHES

### ◆ Side Out Cable Type: 側出線型

ORDERING CODE: M4 - 4101 S - 2

Series code      Type NO.      Cable code



M4-4104S

### ◆ Quick Connent Type (M12×1): 快速連接器型

ORDERING CODE: M4 - 4101 Q - AC

Series code      Type NO.      Connection style



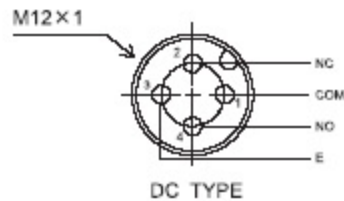
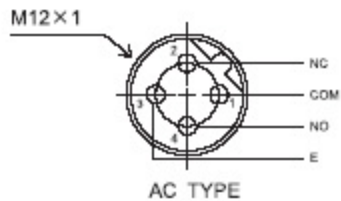
M4-4102Q



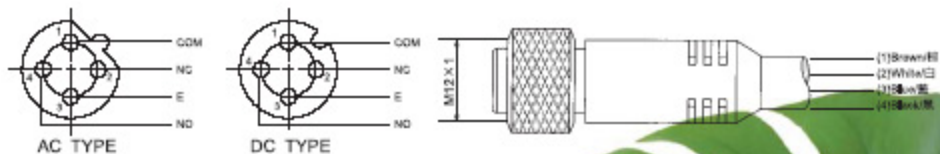
M4-4102S

### ● Connector Style: 連接器型式

AC → For AC or AC/DC Quick Connect Style.  
DC → For DC Quick Connect Style.



### ● Connector Cable: 連結電線



### ORDERING CODE

AC TYPE	DC TYPE	Cable length 電纜長度
M4-QAC-2	M4-QDC-2	2 m
M4-QAC-3	M4-QDC-3	3 m
M4-QAC-5	M4-QDC-5	5 m

