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FT

■ Terminal Pins : Kinked
■ Actuator Color : Yellow

Washable

Ultra-Miniature Toggle Switch

RoHS Compliant



■Features

1. Ultra-miniature toggle switch for high density mounting.
2. Washable.
3. Terminal pin pitch : 2.54 mm.
4. Independent detent mechanism ensures light operational feel.
5. Clip contact mechanism for long-term contact reliability.
6. Gold-plated contacts.

■ Specifications

Rating	Max.	28VDC 0.4VA max.
	Min.	1μA 20mVDC
Initial contact resistance		100mΩ max. (1.5mA 200μ VAC)
Dielectric strength		250VAC 1 minute
Insulation resistance		500MΩ min. (250VDC)
Electrical life		10,000 cycles at max. rating 50,000 cycles at min. rating (**D,E** type) 30,000 cycles at min. rating (**F,G,H** type)
Operating temperature range		−40℃～+85℃
Storage temperature range		−40℃～+85℃

■Part Numbering

F T 2 D — 2 M — Z

Series code | Actuator shape | Number of poles | Switching function | Terminal style | Actuator shape

Code	Type
T	Toggle type

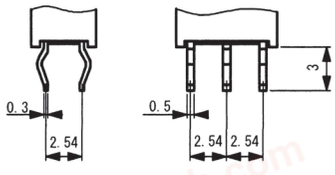
Fig.	Number of poles
1	1 pole
2	2 poles

Code	Switching function
D	ON — ON
E	ON—OFF—ON
F	ON — (ON)
FA	(ON) — ON
G	(ON)—OFF—(ON)
H	ON—OFF—(ON)
HA	(ON)—OFF—ON

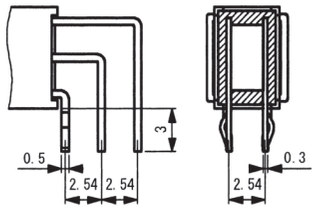
Fig.	Terminal style
2	PC Straight
5	Right angle
4	Vertical mounting

Code	Actuator shape
M	Standard

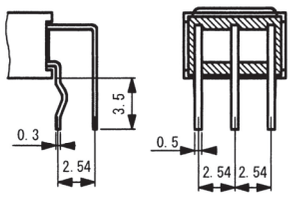
Terminal style of「2」(Style : PC Terminal)



Terminal style of「4」(Style : V/M Terminal)



Terminal style of「5」(Style : R/A Terminal)



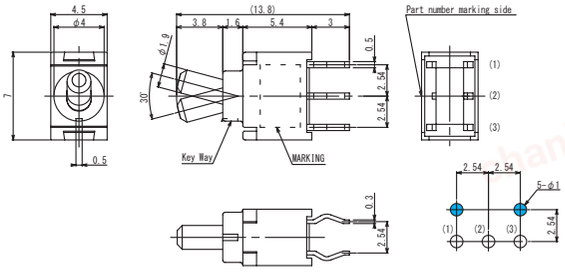
(ON) : Momentary.

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FT

SPDT
PC Straight

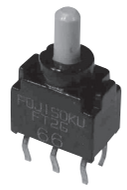


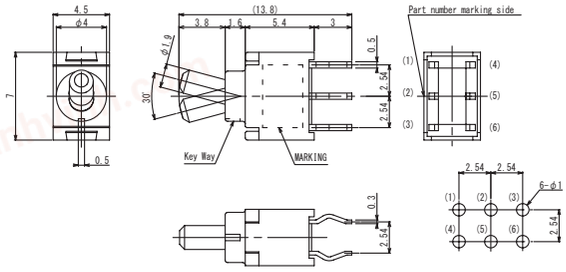


Terminal numbers are not shown on the switch.

Part No. \ Switching function	Key	Key	Key
FT1D-2M-Z	ON	—	ON
☆**FT1E-2M-Z**	ON	OFF	ON
☆**FT1F-2M-Z**	ON	—	(ON)
★**FT1G-2M-Z**	(ON)	OFF	(ON)
▲**FT1H-2M-Z**	ON	OFF	(ON)
Connecting terminals	2−3	—	2−1

DPDT
PC Straight

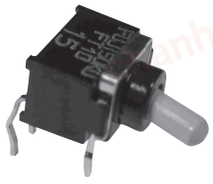


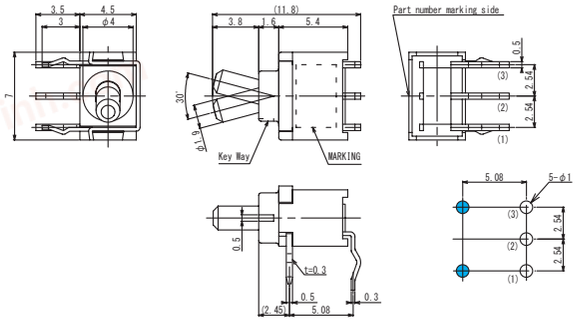


Terminal numbers are not shown on the switch.

Part No. \ Switching function	Key	Key	Key
FT2D-2M-Z	ON	—	ON
☆**FT2E-2M-Z**	ON	OFF	ON
★**FT2F-2M-Z**	ON	—	(ON)
★**FT2G-2M-Z**	(ON)	OFF	(ON)
★**FT2H-2M-Z**	ON	OFF	(ON)
Connecting terminals	2−3 5−6	—	2−1 5−4

SPDT
Right Angle Terminal

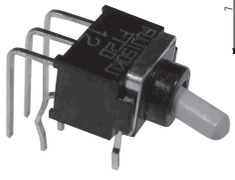


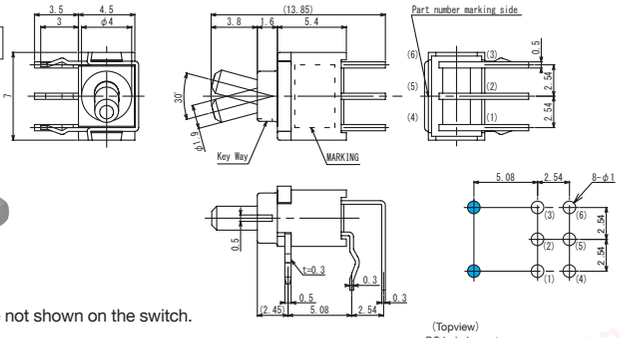


Terminal numbers are not shown on the switch.

Part No. \ Switching function	Key	Key	Key
FT1D-5M-Z	ON	—	ON
FT1E-5M-Z	ON	OFF	ON
☆**FT1F-5M-Z**	(ON)	—	ON
★**FT1FA-5M-Z**	ON	—	(ON)
☆**FT1G-5M-Z**	(ON)	OFF	(ON)
★**FT1H-5M-Z**	(ON)	OFF	ON
▲**FT1HA-5M-Z**	ON	OFF	(ON)
Connecting terminals	2−1	—	2−3

DPDT
Right Angle Terminal





Terminal numbers are not shown on the switch.

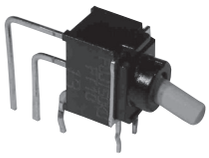
Part No. \ Switching function	Key	Key	Key
☆**FT2D-5M-Z**	ON	—	ON
★**FT2E-5M-Z**	ON	OFF	ON
★**FT2F-5M-Z**	(ON)	—	ON
▲**FT2FA-5M-Z**	ON	—	(ON)
▲**FT2G-5M-Z**	(ON)	OFF	(ON)
▲**FT2H-5M-Z**	(ON)	OFF	ON
▲**FT2HA-5M-Z**	ON	OFF	(ON)
Connecting terminals	2−1 5−4	—	2−3 5−6

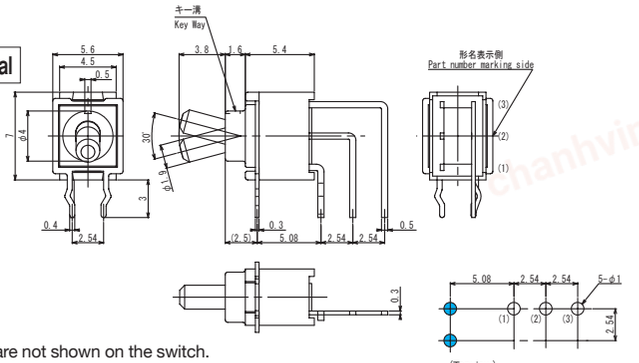
(ON)：Momentary.　　☆：Semi-standard products.　★：Made to order products.

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SPDT

Vertical mounting terminal



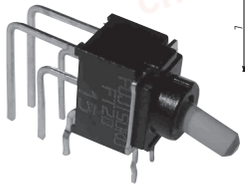


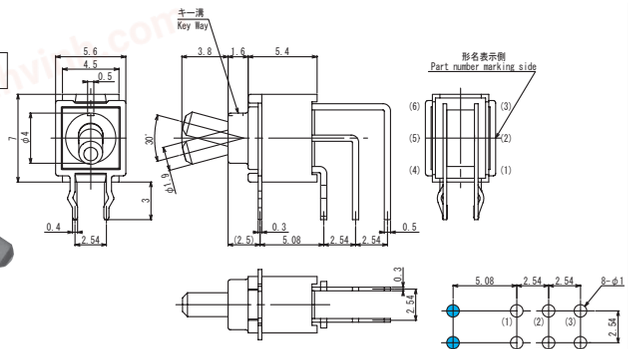
Terminal numbers are not shown on the switch.

Part No. \ Switching function	Key	Key	Key
☆FT1D-4M-Z	ON	—	ON
★FT1E-4M-Z	ON	OFF	ON
★FT1F-4M-Z	ON	—	(ON)
▲FT1FA-4M-Z	(ON)	—	ON
▲FT1G-4M-Z	(ON)	OFF	(ON)
▲FT1H-4M-Z	ON	OFF	(ON)
▲FT1HA-4M-Z	(ON)	OFF	ON
Connecting terminals	2−3	—	2−1

DPDT

Vertical mounting terminal





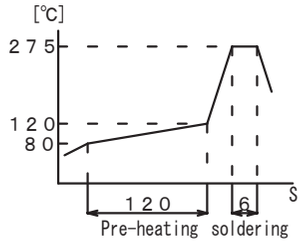
Terminal numbers are not shown on the switch.

Part No. \ Switching function	Key	Key	Key
FT2D-4M-Z	ON	—	ON
★FT2E-4M-Z	ON	OFF	ON
★FT2F-4M-Z	ON	—	(ON)
▲FT2FA-4M-Z	(ON)	—	ON
▲FT2G-4M-Z	(ON)	OFF	(ON)
▲FT2H-4M-Z	ON	OFF	(ON)
▲FT2HA-4M-Z	(ON)	OFF	ON
Connecting terminals	2−3 5−6	—	2−1 5−4

■Soldering Specifications

(1)Manual Soldering
Device : Soldering iron
380℃, Max.; 3 seconds, Max.

(2)Auto Soldering
Device : Jet wave type or dip type
275℃, Max.; 6 seconds, Max.
・Pre-heating should be done at temperatures from 80 to 120℃ and within 120 sec.



(3)When soldering two or more terminals to a common land, use solder resist to separate them.

■ Flux Cleaning

(1)Solvent : Fluorine or Alcohol type.

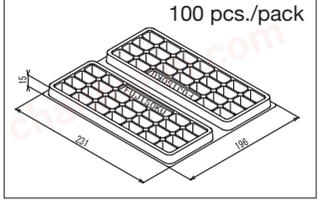
(2)Cleaning after soldering should be done after the PC board is exposed to room temperature (30℃ or below) for 1 to 2 hours.

(3)Do not use ultrasonic cleaning.

■Packaging Specifications

Plastick Pack

100 pcs./pack



▲ : Inquiry products. ★ : Made to order products. ☆ : Semi-standard products. (ON) : Momentary.