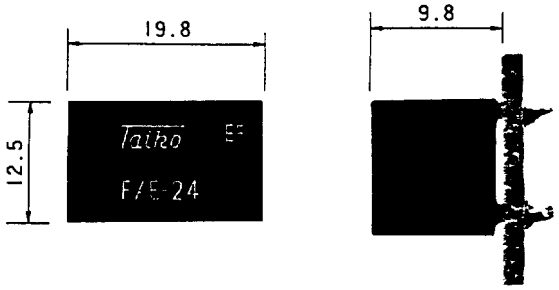
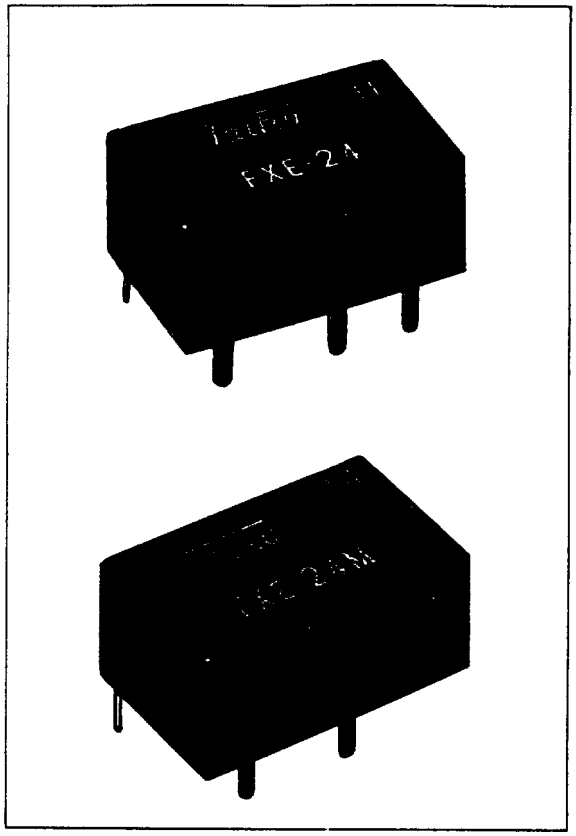
150-513 TO 150-518

FEATURES

1. **LOW PROFILE COMPACT SIZE**
   9.8mm height, 19.8mm length, 12.5mm width.





2. **HIGH CONTACT CAPACITY**
   1 Form A/10A, 1 Form C/7A
3. **HIGH SENSITIVITY**
   200mW nominal (98mW Pull-in)
4. **TWO KINDS OF TERMINALS**
   Standard Terminal : For general use
   Kink Terminal : Also for automatic insertion
5. **EASY FLOW-SOLDERING**
   Flux tight type and Sealed type
6. **SOLVENT COMPATIBILITY**
   Freon, Chlorothene, Trichloroethane, IPA, and Ethanol

NOMENCLATURE BREAKDOWN

FX E - 12 M G C

- **Blank:** Standard terminal type
  C: Kink terminal type
- **Blank:** Standard contact
  G: Low level contact
- **Blank:** 1 Form C (SPDT)
  M: 1 Form A (SPST-NO)
- Coil rated voltage
- **Blank:** Flux tight type
  E: Sealed type
- Type

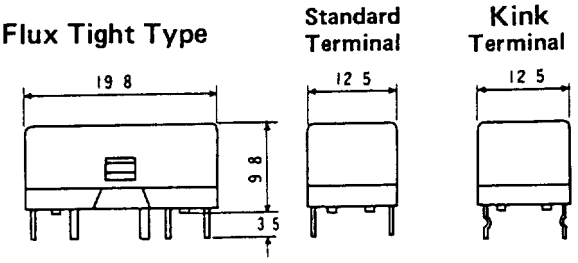
COIL RATING at 20°C

Rated Voltage	Coil Resistance	Pull-in Voltage	Drop-out Voltage	Max.Allowable Voltage	Rated Power
3VDC	45Ω	70%V Max. of rated voltage	10%V Min. of rated voltage	200%V of rated voltage	Approx 0.2W
5VDC	125Ω				
6VDC	180Ω				
9VDC	405Ω				
10VDC	500Ω				
12VDC	720Ω				
24VDC	2,880Ω				

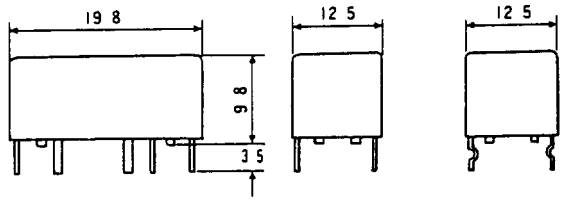
Torelance of coil resistance is ± 10%.

DIMENSIONS (Unit: mm)

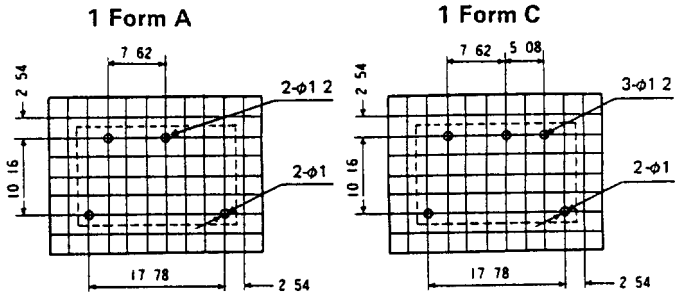
- Flux Tight Type



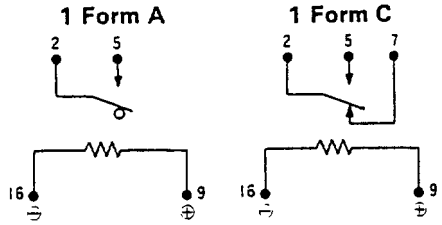
- Sealed Type



- P.C. Board Drilling Design



- Internal Wiring Diagram (BOTTOM VIEW)



Take notice of the polarity of coil shown above.

RATING-PERFORMANCE

	ITEM		SPECIFICATION	
CONTACT	Contact Arrangement		1 Form A	1 Form C
	Contact Material		Standard : Silver alloy Low level : Gold-plated silver alloy	
	Rated Load		250VAC·10A(resistive) 30VDC·10A(resistive)	250VAC·7A(resistive) 30VDC·7A(resistive)
	Max. Switching Power		2,500VA/300W	1,750VA/210W
	Max. Switching Current		10A	7A
	Max. Switching Voltage		380VAC/125VDC	
	Contact Resistance (Initial)		30mΩ Max. at 6VDC·1A after throw	
ELECTRICAL	Dielectric Strength		1000VAC for 1 minute between across contacts 2000VAC for 1 minute between coil and contacts	
	Insulation Resistance		1000MΩ Min. at 500VDC	
	Operate Time		10ms Max.	
	Release Time		10ms Max.	
MECHANICAL	Shock	False Operation	Approx. 20G	
		Endurance	Approx. 100G	
	Vibration	False Operation	10 to 55 Hz, amplitude 1.5mm	
		Endurance	10 to 55 Hz, amplitude 1.5mm	
LIFE	Mechanical		50 X 10^6 times (Switching frequency: 300 times/minute)	
	Electrical		1 X 10^5 times at rated load (Switching frequency: 30 times/minute)	
Ambient Temperature			−40 to + 70 °C	
Weight			Approx. 5.5 gs.	

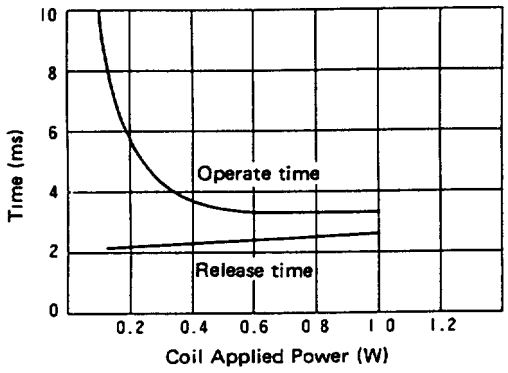
APPLICATIONS

(1) **GENERAL USE (Silver alloy)**
For control of contact load with AC/DC
a) Resistive load —— heater etc.
b) Inductive load —— motor, solenoid etc.

(2) **LOW LEVEL USE (Gold-plated silver alloy)**
For control of contact load with low level of AC/DC
a) Sequencer etc.
b) Security devices etc.

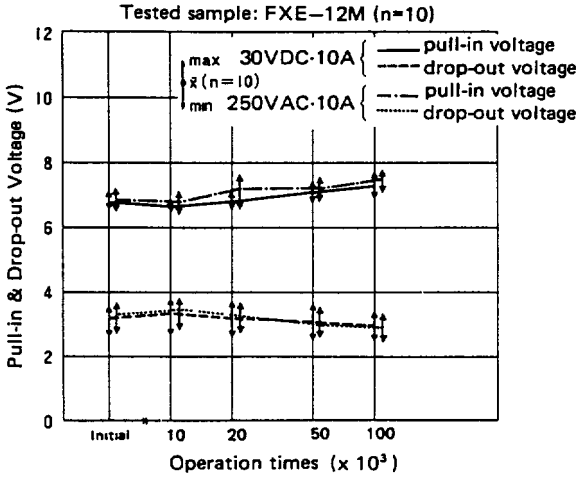
CHARACTERISTICS

- **Time Characteristic**

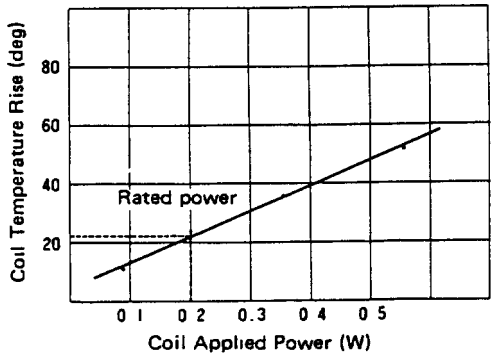


- **Electrical Life**

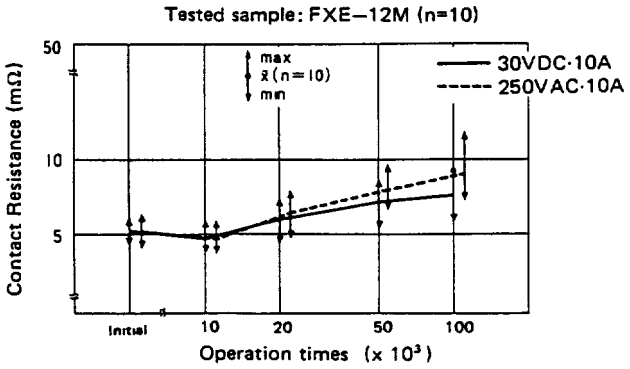
1) Variation of Pull-in & Drop-out Voltage



- **Coil Temperature Rise**



2) Variation of Contact Resistance



We reserve the right to change without prior notice the information contained in this leaflet

Health and Safety at Work etc. Act 1974
Some of our products are capable of being operated by and capable of switching high voltages and/or currents Care must therefore be excercised in the usage of such products

PED

PED Limited

Exning Road, Newmarket, Suffolk CB8 0AX, England
Tel: (0638) 665161 Telex: 81245 PEDLTD Fax (0638) 660718

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