

POWER RELAY FOR INTERFACE 1 POLE - 5A 150mW SOCKET MOUNTING TYPE

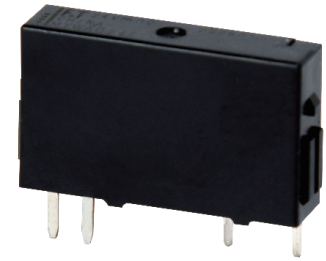
FTR-MY Series

RoHS Compliant

■ FEATURES

- The relay has a guide for socket mounting. Socket mounting enables the relay replaceable ^(Note).
- Flow soldering to printed circuit board is also possible, since the terminals are pre-soldered.
- Width 5mm, height 12mm (31% smaller than NY series)
area 104.5mm² (when using a relay alone), super slim, low power, compact and light weight 2.5g.
- Nominal power: 150mW
Operate power: 74mW
- High reliable contacts, bifurcated gold overlay AgNi (cadmium free)
- Dielectric strength: 3,000VAC
- Surge strength: 5,080V
- RoHS compliant
- Plastic sealed type, RTIII

Note: FCL Components does not sell socket.



Reference: Socket mounting image

■ APPLICATIONS

PLCs, I/O modules, interface relay modules, FA equipment etc.

■ PART NUMBERS

[Example] FTR-MY W A 024 E
(a) (b) (c) (d) (e)

(a)	Relay type	FTR-MY series
(b)	Contact configuration	W : 1a (1 Form A), socket mounting type
(c)	Coil type	A : Standard type (150mW)
(d)	Coil rated voltage	024 : 24VDC
(e)	Contact material	E : Gold overlay AgNi

Actual marking does not carry the type name: "FTR"

E.g.: Ordering code: FTR-MYWA012E Actual marking: MYWA024E

■ SPECIFICATIONS

Item		Specifications	Remarks/Conditions	
Contact	Configuration	1a (1 Form A)		
Data	Construction	Bifurcated (cross bar)		
	Material	Gold overlay AgNi		
	Resistance	Max. 30mΩ	Initial at 1A, 6VDC	
	Contact rating	5A, 250VAC/30VDC	Resistive	
	Max. carrying current	5A		
	Max. switching current	5A		
	Max. switching voltage	277VAC/125VDC		
	Max. switching power	1,250VA/150W		
	Min. switching load ^{*1}	1mA, 5VDC		
	Coil	Rated power (at 20°C)	150mW	
Operate power (at 20°C)		74mW		
Operating temperature range		-40°C to +90°C	No frost	
Time	Operate (at nominal voltage)	Max. 10ms	Without bounce	
	Release (at nominal voltage)	Max. 5ms	Without bounce	
Life	Mechanical	Min. 20 x 10 ⁶ operations		
	Electrical (resistive)	Min. 100 x 10 ³ operations (at 3A 250VAC/30VDC resistive) Min. 50 x 10 ³ operations (at 5A 250VAC/30VDC resistive)		
Insulation	Insulation resistance (Initial)		Min. 1,000MΩ	At 500VDC
	Dielectric strength	Open contacts	750VAC (50/60Hz) 1 min.	
		Coil to contacts	3,000VAC (50/60Hz) 1 min.	
	Surge strength	Coil to contacts	5,080V / 1.2 x 50μs standard wave	
	Clearance		Min. 5.15mm	
Creepage		Min. 5.89mm		
Others	Vibration resistance	Misoperation	10 to 55 to 10Hz single amplitude 0.75mm	Coil ON/OFF, 3 axis, total 6 cycles
		Endurance	10 to 55 to 10Hz single amplitude 2.5mm	Coil OFF, 3 axis, total 6 hours
	Shock resistance	Misoperation	Min. 100m/s ² (11±1ms)	Coil ON/OFF, 3 axis, total 36 operations
		Endurance	Min. 1,000m/s ² (6±1ms)	Coil OFF, 3 axis, total 18 operations
	Dimensions / Weight		5.0 x 20.9 x 12.0mm / Approx. 2.5g	
	Sealing		Plastic sealed RTIII	

*1: Minimum switching loads mentioned above are reference values. Please perform the confirmation test with actual load before production since reference values may vary according to switching frequencies, environmental conditions and expected reliability levels.

COIL DATA

Coil Code	Rated Coil Voltage (VDC)	Coil Resistance $\pm 10\%$ (Ω)	Must Operate Voltage* ¹ (VDC)	Must Release Voltage* ¹ (VDC)	Rated Power (mW)
024	24	3,840	16.8	1.2	150mW

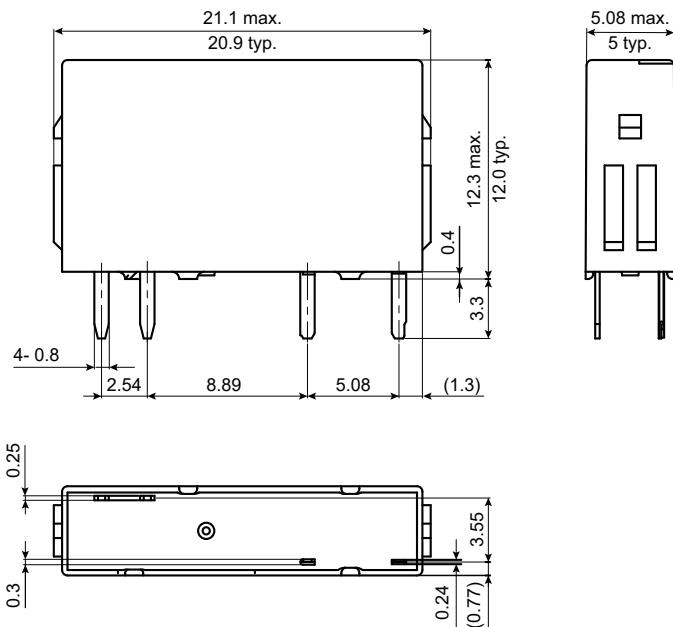
Note: All values in the table are valid for 20°C and zero contact current.

*1: Specified operate values are valid for pulse wave voltage.

Please use at rated coil voltage. Please refer to characteristic data and set up adequate voltage in case of use at over voltage.

DIMENSIONS

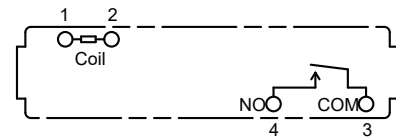
Dimensions



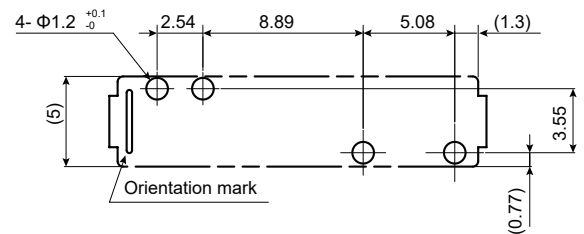
* Dimensions of the terminals do not include thickness of pre-soldering.

* Tolerance of PC board mounting hole layout: ± 0.1 unless otherwise specified.

Schematics (BOTTOM VIEW)



PC board mounting hole layout (BOTTOM VIEW)



(): Reference
Unit: mm

SOCKET

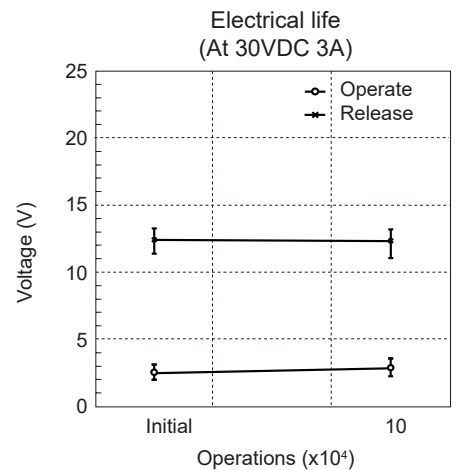
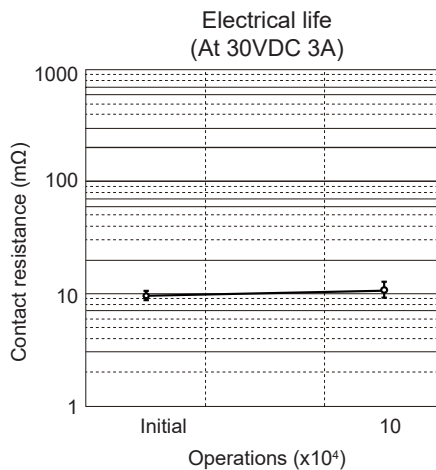
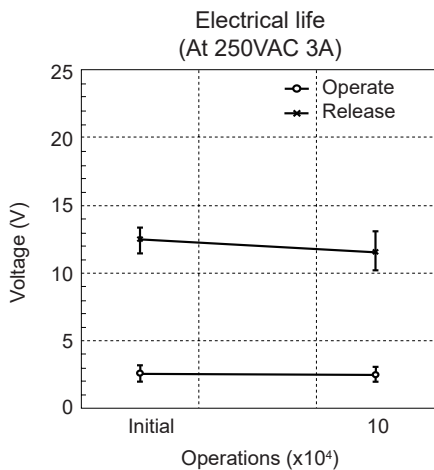
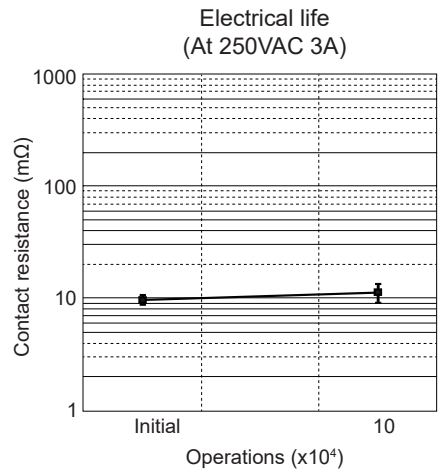
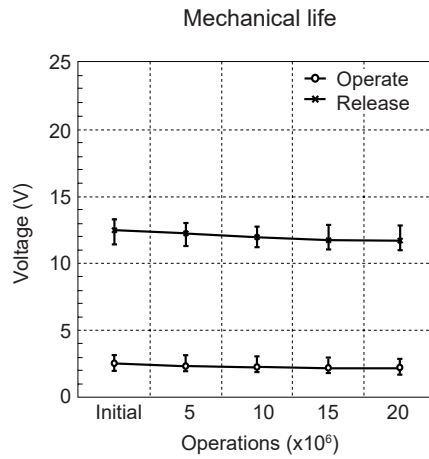
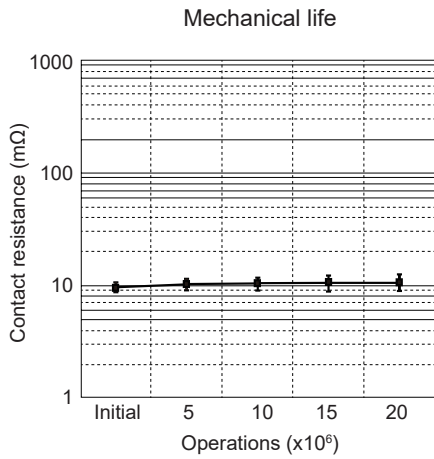
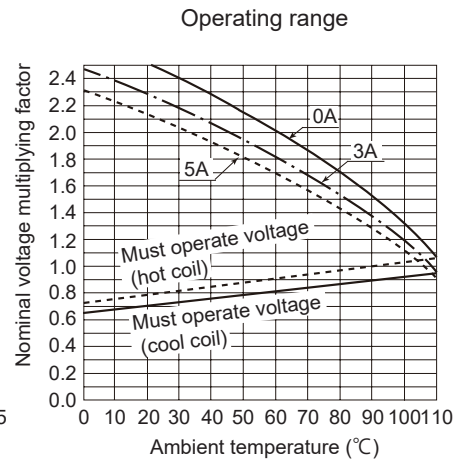
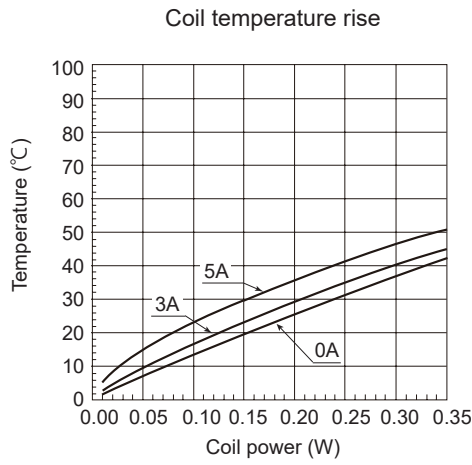
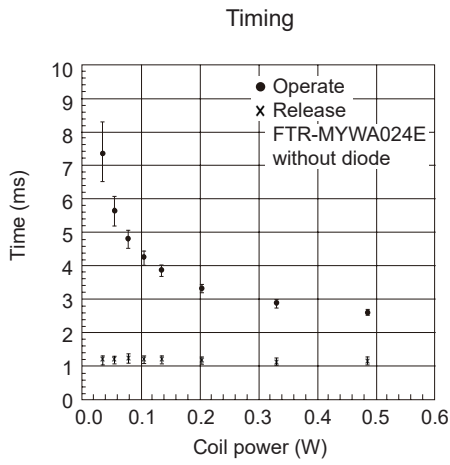
FCL Components does not sell sockets. Please purchase a universal socket which matches above mentioned PC board mounting hole layout.

PART NUMBER LIST

Part Number	Contact Configuration	Rated Power	Contact Material	Remarks
FTR-MYWA()E	1a (1 Form A)	Standard (150mW)	Gold overlay AgNi	Socket mounting available

CHARACTERISTIC DATA

(Characteristic data is not guaranteed value but measured values of samples from production line.)



CAUTIONS

- All values mentioned in this datasheet are provided under ideal conditions. Please perform the confirmation test before actual use.
- Reflow soldering is prohibited.
- Do not use relays in the atmosphere with sulfide gas, chloride gas or nitric oxide. Contact resistance may increase.
- Do not use silicon or silicon-containing product or materials near relays. It may cause contact failure.

GENERAL INFORMATION

1. RoHS Compliance

- All relays produced by FCL Components are compliant with RoHS directive 2011/65/EU, including commission delegated directive 2015/863.

2. Recommended lead free solder condition

- Lead free solder plating on relay terminals is Sn-3.0Ag-0.5Cu, unless otherwise specified. This material has been verified to be compatible with PbSn assembly process.
- Recommended solder for assembly: Sn-3.0Ag-0.5Cu.

Flow Solder Condition:

Pre-Heating: Maximum 120°C within 90 sec.

Soldering: Dip within 5 sec. at 255°C±5°C solder bath

Relay must be cooled by air immediately after soldering

Solder by Soldering Iron:

Soldering Iron: 30-60W

Temperature: Maximum 340-360°C

Duration: Maximum 3 sec.

We highly recommend that you confirm your actual solder conditions

3. Moisture Sensitivity

- Moisture Sensitivity Level standard is not applicable to electromechanical relays, unless otherwise indicated.

4. Tin Whiskers

- Dipped SnAgCu solder is known as presenting a low risk to tin whisker development. No considerable length whisker was found by our in-house test.

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