Power Relays

#### Features

Miniature relay (15.7mm height) High contact capacity up to 20A Dielectric strength 5,000Vrms Isolation spacing greater than 8mm Ambient temperature up to 125°C Flux proofed only



## Ordering information

ERM10NT - <u>1A</u> DC12V - <u>1</u> N 1 <u>2</u> <u>3</u> <u>4</u> <u>5</u>			
1 Relay model	5 Contact material: NIL: AgNi; N: AgSnO <sub>2</sub>		
2 Contact arrangement: 1A: 1 Form A; 1B: 1 Form B	Note: RoHS : RoHS compliant relay;		
3 Rated voltage	RoHS-I : AgNi contact;		
4 Termination: NIL: QC terminal vertical;	RoHS-N: AgSnO <sub>2</sub> contact		
1 : QC terminal horizontal			

### Coil rating

Rated voltage	Coil resistance	Must operate voltage	Must dropout voltage	Maximum voltage	Power consumption (W)	Operate time	Release time
(V)	Ω+/-10%	% of rated voltage (at +20°C)			Approx.	(ms)	(ms)
5	62						
6	90						
12	360						
24	1440	70 Max.	10 Min.	150 Max.	0.41	<15	<8
48	5760±15%						
60	7500±15%						
110	25200±15%						

CAUTION: 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay. 2. Pickup and release voltage are for test purposes only and are not to be used as design criteria.

#### Characteristics

Contact arrangen	nent	SPST (1 Form A or 1 Form B)		
Contact material		Silver alloy		
Contact resistance		100mΩ Max. (at 1A 6VDC)		
Contact rating (resistive)		20A 250VAC		
Switching current		20A Max.		
Switching power		5,000VA Max.		
Switching voltage AC 440V / DC 125V Max.		AC 440V / DC 125V Max.		
Temperature rise	Temperature rise 55K Max. at normal voltage			
Insulation resistance		1,000MΩ Min. (at 500VDC)		
Dielectric strength		1,000VAC (50Hz/min) Between open contacts		
		5,000VAC (50Hz/min) Between coil and contact		
Surge voltage 10KV (1.2 x 50µs)		10KV (1.2 x 50μs)		
Shock resistance		Functional : 98m/s <sup>2</sup>		
		Destructive: 980m/s <sup>2</sup>		
Vibration resistance		10-55Hz NO contact: 10g; NC contact: 5g		
Ambient temperature		-40°C to +125°C		
Humidity		35% - 85% RH		
Operation life	Mechanical	10 <sup>7</sup>		
	Electrical	10 <sup>6</sup> (at rated load)		
Weight		16g Approx.		

(Specifications are subject to change without notices.)

## Forward Industrial Company



# El.italia serie FW-FRM10NT



