

Digital

Counters / Timers

(Indicator)

FX Series



Features

- Counting speeds: 1 cps / 30 cps / 2 kcps / 5 kcps
- Switch between counter and timer operation using DIP switch
- Switch between voltage input (PNP) and no-voltage input (PNP) using DIP switch
- Set decimal point, hr / min / sec display with RESET key
- Operation modes: count-up, count-down, count-up / down (counter)

[Counter]

- 20 input modes

[Timer]

- Various time setting ranges
 - 6-digit models: 0.01 sec to 99999.9 hr
 - 4-digit models: 0.01 sec to 9999 hr
- Power supply
 - 100 - 240 VAC ~ 50 / 60 Hz (AC type)
 - 24 VAC ~ 50 / 60 Hz,
 - 24 - 48 VDC (AC / DC universal type)

Specifications

Model	FX4Y-I□	FX6Y-I□
Display digits	4-digit	6-digit
Character size	W 8 × H 14 mm	W 4 × H 8 mm
Max. counting speed	1 / 30 / 2 k / 5 k cps	
Return time	≤ 500 ms	
Min. signal width	INHIBIT, RESET: ≈ 20 ms	
Input logic	Voltage input (PNP) - input impedance: ≤ 10.8 kΩ, [H]: 5 - 30 VDC, [L]: 0 - 2 VDC No-voltage input (NPN) - short-circuit impedance: ≤ 470 Ω, short-circuit residual voltage: ≤ 1 VDC open-circuit impedance: ≥ 100 kΩ	
Error	Repeat / SET / voltage / Temp.: ≤ ± 0.01 % ± 0.05 s	
Unit weight (packaged)	≈ 120 g (≈ 175 g)	
Approval	CE, RoHS, ENEC	
Voltage type	AC voltage	AC / DC voltage
Power supply	100 - 240 VAC ~ ± 10 % 50 / 60 Hz	24 VAC ~ ± 10 % 50 / 60 Hz, 24 - 48 VDC ~ ± 10 %
Power consumption	≤ 3.8 VA	AC: ≤ 2.8 VA DC: ≤ 1.8 W
External supply power	≤ 12 VDC ~ ± 10 % 50 mA	
Memory retention	≈ 10 years (non-volatile semiconductor memory type)	
Insulation resistance	≥ 100 MΩ (500 VDC megger)	
Dielectric strength	Between all terminals and case: 2,000 VAC ~ 50 / 60 Hz for 1 min	
Noise immunity	± 2 kV square wave noise (pulse width: 1 μs) by the noise simulator	± 500 V square wave noise (pulse width: 1 μs) by the noise simulator
Vibration	0.75 mm double amplitude at frequency of 10 to 55 Hz (for 1 minute) in each X, Y, Z direction for 1 hour	
Vibration (malfunction)	0.5 mm double amplitude at frequency of 10 to 55 Hz (for 1 minute) in each X, Y, Z direction for 10 minute	
Shock	300 m/s ² (≈ 30 G) in each X, Y, Z direction for 3 times	
Shock (malfunction)	100 m/s ² (≈ 10 G) in each X, Y, Z direction for 3 times	
Ambient temperature	-10 to 55 °C, storage: -25 to 65 °C (no freezing or condensation)	
Ambient humidity	35 to 85 %RH, storage: 35 to 85 %RH (no freezing or condensation)	
Protection rating	IP40 (front part, IEC standard)	



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