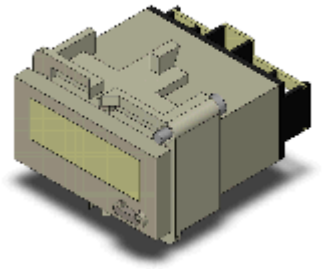
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Print

Self-powered Totalizer

H7ET-NFV

Time Counter, 48 mm x 24 mm x 55.5 mm, 7 digit, 0.0 h to 999999.9 h/0.0 h to 3999 d 23.9 h (selectable), Free voltage input, Light gray



Image

Digits	7 digit
External connection method	Screw terminal
Mounting method	Flush mounting

Ratings/Specifications

As of February 27, 2020

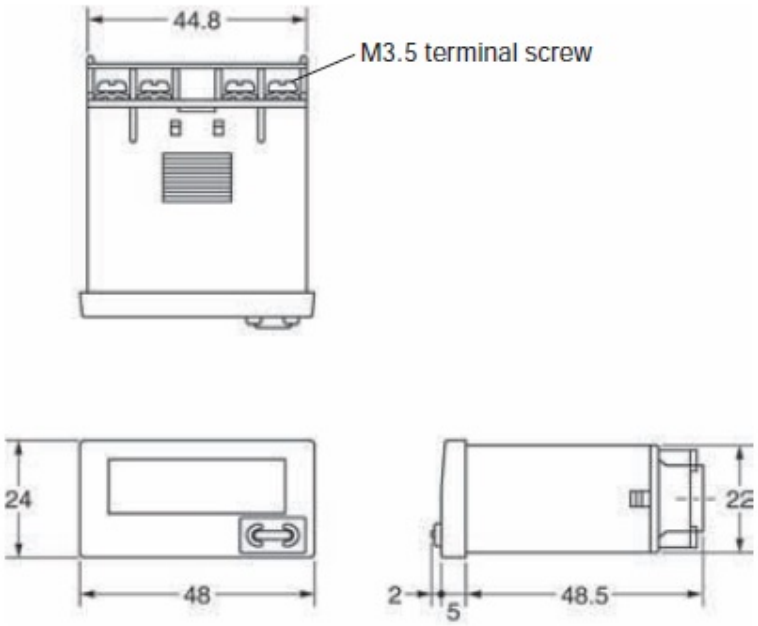
Function		Time Counter
Time counter	**Time ranges**	Increment
	Time ranges	0.0 h to 999999.9 h/0.0 h to 3999 d 23.9 h (selectable)
	Set value read selector	±100 ppm (25 ℃)
	Minimum signal input width	1 s
	Reset system	External and manual reset
Input	**Input signal**	Count input, Reset
	Input method	Free voltage input
	Voltage input	Hight level: 24 to 240 VAC/VDC Low level: 0 to 2.4 VAC/VDC
Reset time	**External reset**	20 ms
	Manual reset	20 ms
Display	**Display method**	LCD
	Digits	7 digit
	Character height	8.6 mm
	Zero suppression	Equipped
Key protection		Key protect Switch
Ambient temperature (Operating)		-10 to 55℃ (with no freezing or condensation)
Ambient temperature (Storage)		-25 to 65℃ (with no freezing or condensation)
Ambient humidity (Operating)		25 to 85%
Insulation resistance		Between current carrying terminals and exposed non-current carrying metal parts: 100 MΩ min. (at 500 VDC)

	Between timer input terminals and reset terminals: 100 MΩ min. (at 500 VDC)
Dielectric withstand voltage	Between reset terminals and exposed non-current-carrying metal parts: 2200 VAC 50/60 Hz 1 min Between timer input terminals and exposed non-current-carrying metal parts: 3700 VAC 50/60 Hz 1 min Between timer input terminals and reset terminals: 2200 VAC 50/60 Hz 1 min
Impulse withstand voltage	Between current carrying terminals and exposed non-current carrying metal parts: 4.5 kV Between timer input terminals and reset terminals: 3 kV
Noise immunity	Between reset terminals: ±500 V Between timer input terminals: ±1.5 kV square-wave noise by noise simulator (pulse width: 100 ns/1 μs, 1-ns rise)
Static immunity	±8 kV (malfunction)
Vibration resistance	Destruction: 10 to 55 Hz, 0.375 mm single amplitude each in 3 directions for 2 h Malfunction: 10 to 55 Hz, 0.15 mm single amplitude each in 3 directions for 10 min
Shock resistance	Destruction: 300 m/s**2, 3 times each in 6 directions Malfunction: 200 m/s**2, 3 times each in 6 directions
Degree of protection	Case front: IP66, NEMA 4 (indoors), and UL Type 4X (indoors)
External connection method	Screw terminal
Case color	Light gray (Munsell 5Y7/1)
Accessories	Flush mounting adapter, Lithium Battery (3 V), Waterproof packing, Unit label
Weight	Approx. 60 g

As of February 27, 2020

Dimensions

As of February 27, 2020



As of February 27, 2020

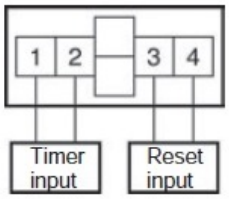
Terminal arrangement

As of February 27, 2020

■ Terminal Arrangement

Bottom view: View of the Time Counter rotated horizontally 180°

No-backlight Model



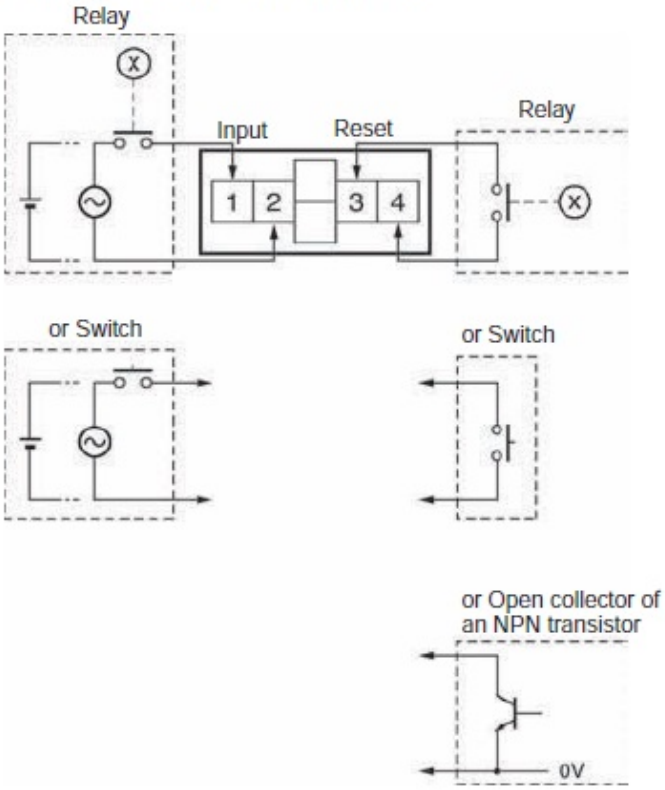
As of February 27, 2020

Input connection diagram

As of February 27, 2020

Free voltage input

AC/DC Multi-voltage Input Model



Note: Select input transistors according to the following:
Dielectric strength of the collector ≥ 50 V
Leakage current < 1 μA

As of February 27, 2020