



FEATURES

- Accepts input rates up to 500KHz
- Readout range from -999999 to 999999 digit
- Normal counting and rotate for 360 degree counting can be modified
- Quadrature sensing up to 4 times resolution
- Input scaling multiplied 0.00001 to 9.99999 can be modified
- Two alarm function (optional)
- 16 bit DAC analog output function (optional)
- Digit RS-485 interface function (optional)

1.MODEL:MCHH-□-□-□-□
()

NO	Input Type/Exciting Voltage	NO	Alarm output	NO	Analog output	NO	RS-485	NO	Aux.Power
A	Pulse (PNP)(5V)	0	None	N	None	N	None	A	AC/DC18~60V
B	Pulse(NPN)(12V)	1	One(Relay)	I	DC4~20mA	Y	RS-485	B	AC/DC90~260V
C	Pulse(PNP)(12V)	2	Two(Relay)	V	DC0~10V		•Modbus mode		•Less 4VA for AC/DC input
O	SPECIFIED	3	One(Transistor NPN)	R	SPECIFIED		•256 nodes on bus		
		4	Two(Transistor NPN)	T	•DC4~20mA(Two-wire transmitter (Exciting voltage DC10~36V)				

2.SPECIFICATION

- Count input type : Jump-pin selectable current sourcing(NPN) or current sinking(PNP)
- Count input trigger levels : High level: $V_{IH}=DC4\sim30V$ (Pulse)
Low level: $V_{IL}=DC0\sim2V$ (Pulse)
- Maximum count rates : <500KHz (Only quadrature-up/down input)
- Readout (compare) range : -999999 to 999999 digit adjustable (Normal-type)
0.000 to 359.999 digit adjustable (Rotate-type)
- Alarm action : HI or Lo adjustable
- Alarm output responses time: <10ms (Relay output)
<0.5ms (Transistor output)
- Relay contact output : AC250V-5A, DC30V-5A
- Transistor output type : Photo couple of open-collector (Max.DC30V/40mA)
- Analog output resolution : 16 bit DAC (Isolating)
- Response time : <1/f+10ms (0~90%)
- Output drive capability : <10mA for voltage mode
<10V for current mode
<[(V+)-7.5V]/20mA for two-wire mode
- Output ripple (p-p) : 0.1% F.S.
- RS-485 address : "01" ~ "FF" (0~255)
- RS-485 baud rate : 38400/19200/9600/4800/2400 selective
- Display : Red high efficiency LEDs high 14.22mm (0.56")
- Sensor power supply : 12Vdc $\pm 3\%$ (<60mA)
- Memory mode : Non-volatile E²PROM memory
- Dielectric strength : 2KVdc/1 min. (input/output/power)
1600Vdc (input/output)
- Operating condition : 0~50°C (20 to 90% RH non-condensed)
- Storage condition : 0~70°C (20 to 90% RH non-condensed)
- CE EMC Certification : EN 55022:1998/A1:2000 Class A
EN 61000-3-2:2000
EN 61000-3-3:1995/A1:2001
EN 55024:1998/A1:2001

3.OUTSIDE DIMENSION AND CONNECTION DIAGRAM

