



FEATURES

- Readout range from -19999 to 99999
- Accepts input rates up to 10KHz
- Four counting modes Up, Down, Up/Down, quadrature can be modified
- Quadrature sensing up to 4 times resolution
- Input scaling multiplied 0.0001 to 9.9999 can be modified
- Two alarm function (optional)
- 15 bit DAC analog output function (optional)
- Digit RS-485 interface function (optional)

1: MODEL: MMCS-□ □ □ - □ □ □ □

NO	Input Type	NO	Input rates	NO	Counting Mode	NO	Alarm output	NO	Analog output	NO	RS-485	NO	Aux. Power
A	Pulse (TTL) (5V)	1	50 pulse/sec.	1	Up	0	None	N	None	N	None	A	AC/DC 18~60V
B	Pulse (NPN) (12V)	2	5000 pulse/sec.	2	Down	1	One	I	DC4~20mA	Y	RS-485	B	AC/DC 90~260V
C	Pulse (PNP) (12V)	1: Contact input 2: Non-contact input		3	Up/Down	2	Two	V	DC0~10V	• Modbus mode • 256 nodes on bus		• Less 4VA for AC/DC input	
O	SPECIFIED			4	Quadrature			R	SPECIFIED				

2: SPECIFICATION

- Count input type : Jump-pin selectable current sourcing (NPN) or current sinking (PNP)
- Count input trigger levels : HI bias (CMOS) ($V_{IH}=7.5V$, $V_{IL}=5.5V$)
LO bias (TTL) ($V_{IH}=3.7V$, $V_{IL}=2.0V$)
- Max. count rates : <10KHz (up, down, up/down mode)
<5KHz (quadrature mode)
- Over input indication : "doFL" and "-doFL"
- Readout (compare) range : -19999 to 99999 digit adjustable
- Alarm action : HI or Lo adjustable
- Relay contact output : AC 250V-2.5A, DC 30V-5A
- Analog output resolution : 16 bit DAC (isolating)
- Response time : < $1/f + 10$ ms (0~90%)
- Output drive capability : < 10mA for voltage mode
< 10V for current mode
- Output ripple (p-p) : < 0.1% F.S.
- RS-485 address : "01"~"FF" (0~255)
- RS-485 baud rate : 19200/9600/4800/2400 selective
- Display : Red high efficiency LEDs high 10.16mm (0.4")
- Sensor power supply : 12VDC $\pm 3\%$ (<60mA)
- Memory mode : Non-volatile E² PROM memory
- Dielectric strength : 2KVac/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

