MG10A/20A/30

Interface

▲ MG10A-P1 : RS-232C(Conforming to EIA-232C)

▲ MG10A-P2 : RS-232C(Conforming to EIA-232C)

Compatible with DK/DT Series

Main module specifications

Model		MG10A-P1	MG10A-P2
Power source	Power supply	DC12~24 V (11~26.4 V) Start up time: 100ms or less	
	Power consumption	2.0W + total power consumptioin for coneected modules*1	
	Inrush current(10 ms)	10A or less (When the maximum numboer of modules are connected)	
	Power supply protection	Fues (5-A fues is built in)	
Communication	Communication I/F	RS-232C (EIA-232C or equivalent)	
	Baud rate setting	2400/9600/19200/38400 bps (set with DIP switch)	
	Data length	7/8 bit (set with DIP switch)	
	Stop bit	1/2 bit (set with DIP switch)	
	Parity	NONE/ODD/EVEN (set with DIP switch)	
	Delimiter	CR/CR+LF (set with DIP switch)	
Linkage function	Maximum number of linkages	16 (Total of counter modules: 64)	
	Maximum number of linking cable	10m	
I/O	Input format	Source input(+COM)	Sink input(-COM)
		Photocoupler insulation, exeternal power:5-24V DC	
	Output format	Open collector output sink type(-COM)	Source input(+COM)
		Photocoupler insulation, external power: 5-24V DC	
	Input signal	Reset, Pause, Start, Latching, and Data out trigger to whole channel	
	Output signal	Intergrated alarm	
Connectable modules	Counter modules	MG20A–DK, MG20A–DG, MG20A–DT (Available for mixed use, up to 16 modules)*1	
	Interface modules	MG30- B1, MG30-B2 *1	

*1 Total power of modules connected to MG10A should not be over 54W(at 12 VDC input) or 108W(at 24 VDC input)

*Magnescale reserves the right to change product specifications without prior notice.

Counter module specifications

Model		MG20A-DK	MG20A-DT
Power consumption		1W + power consumption for connected measuring unit	0.8 W
Measuring unit input	Corresponding mesuring unit	DK Series (Voltage differential A/B quadrature input)	DT Series
	Allowable resolution setting*2	10/5/1/0.5/0.1 μm	5 μm (DT12/32) 1 μm (DT512)
		set with DIP switch	
	Maximum response speed	Subject to the specification of connected measuring unit	1m/s
	Maximum response accelration	Subject to the specification of connected measuring unit	2400m/s^2
	Reference point	REF-LED(reference point loaded) shows on the display after the reference point is detected Set "0" or preset value on the counter when the reference point is detected	—
Others	Alarm	S-ALM LED activates by excess speed/acceleration of measuring unit C-ALM LED activates by excess speed of the internal circuit of counter	
		The alarm display is cancelled by reset command from MG10A or with the reset button of main unit	

*2 Set the resolution value of the connected mesuring unit

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Interface module specifications

Model		MG30-B1	MG30-B2
Power consumption		1W	
I/O	Input format	Source input(+COM) Counterpart output circuit : Current sink input(-COM)	Current sink input(-COM) Counterpart output circuit: Source type(+COM)
		Photocoupler insulation, external power: 5-24V DC	
	Output format	Open collector output sink type(-COM) Source type(+COM)	Source type(+COM) Counterpart output circuit(+COM): Source type(-COM)
		Photocoupler insulation, external power: 5-24V DC	
	Input signal	DRQ, channel address, Measuring mode shifting, Comparator shifting, Reset, Start, Pause, Reference-point loaded	
	Output signal	BCD data(6 digits) READY GO GO/No-go output Alarm referene point	
Output setting		Timer(1 to 128ms) OUT/OR Polarity (Set with internal DIP switch)	

All models	Operation temperature and humidity range	0~+50 °C (No condensation)
	Storage temperature and humidity range	–10~+60 °C (20~90%RH)

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