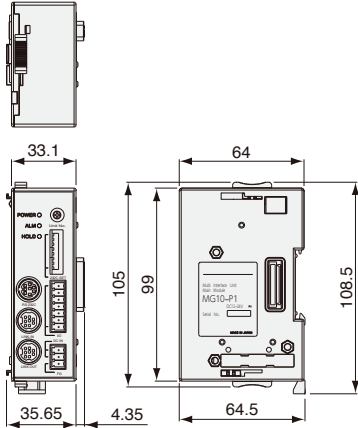


# MG10/20/30

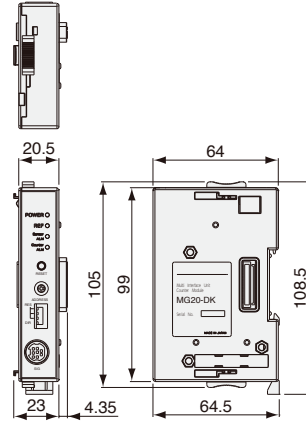


MG10-P1/P2

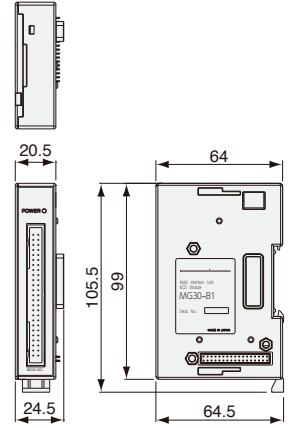


Unit: mm

MG20-DK/DT



MG30-B1/B2



## Main module specifications

Model	MG10-P1	MG10-P2
Power source	Power supply	12-24 V (11-26.4 V) DC, Min. startup time: 100ms or less
	Power consumption	2.0 W + total power consumption for connected modules <sup>*1</sup>
	Inrush current (10 ms)	10 A or less (when maximum number of modules are connected)
	Power supply protection	Fuse (5-A fuse 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 length of linking cable	10 m
I/O	Input format	Source input (+COM) Sink input (-COM)
	Output format	Open collector output sink type (-COM) Source type (+COM)
	Input signal	Reset, pause, start, latching, and data out trigger to whole channels
	Output signal	Integrated alarm
Connectable modules	Counter modules	MG20-DK, MG20-DG, and MG-20DT (available for mixed use, up to 16 modules) <sup>*1</sup>
	Interface modules	MG30-B1, MG30-B2 <sup>*1</sup>

\*1: Total power of modules connected to MG10 should not be over 54W (at 12 VDC input) or 108 W (at 24 VDC input).

## Counter module specifications

Model	MG20-DK	MG20-DT
Power consumption	1 W + power consumption for connected gauge	0.8 W
Measuring unit input	Corresponding gauge	DK Series (Voltage differential A/B quadrature input)
	Allowable resolution setting <sup>*2</sup>	10/5/1/0.5/0.1 μm
	Maximum response speed	Subject to the specification of the connected gauge
	Maximum response acceleration	REF-LED (reference-point loaded) shows on the display after 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 MG10 or with the reset button of main unit.

\*2: Set the resolution value of the connected gauge.

## Interface module specifications

Model	MG30-B1	MG30-B2
Power consumption	1 W	
I/O	Input format	Source type (+COM) Counterpart output circuit: current sink input (-COM)
	Output format	Current sink input (-COM) Counterpart output circuit: source type (+COM)
	Input signal	DRQ / channel address / measuring mode shifting / comparator shifting / reset / start / posing / reference-point loaded
	Output signal	BCD data (6 digits) / READY / code / Go/No-go output / alarm / reference-point
Output setting	Timer (1 to 128 ms) / OUT / OR / polarity (set with internal DIP switch)	
All models	Operating temperature	0 to +50 °C(No condensation)
	Storage temperature	-10 to +60 °C(20 to 90%RH)