# MJ500/ 600/700

#### Can be connected to commercially available analog output encoders

- Capable of 80 to 4000 divisions.
- Number of divisions

MJ500: 80 to 400 divisions MJ600: 500 to 1024 divisions MJ700: 1200 to 4000 divisions

•The MJ500/600/700 also allow DC offset compensation, gain compensation and phase difference compensation.

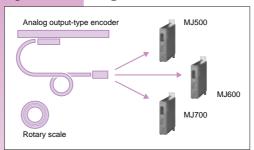
#### **Specifications**

Model		MJ500		MJ600		MJ700
Power supply	5 V (4.5 V to 8 V)					
Power consumption	4 W					
Output interface	Line driver (EIA-422)					
Outputs	A/B phases, Z phase, U/V/W phases, alarms					
Number of divisions	4	400,360,300,240,120,100,80;	1024,1000,960,800,720,640,512,500;		4000,3600,2560,2400,2000,1800,1280,1200;	
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	the synchi	onized reference point specifications.)	the synchronized reference point specifications.)		the synchronized reference point specifications.)	
Maximum response frequency	400 divisions	20 KHz (24.0 m/min on a scale where $\lambda$ = 20 $\mu$ m)	1024 divisions	6 KHz (7.2 m/min on a scale where λ = 20 μm)	4000 divisions	1 KHz (1.2 m/min on a scale where $\lambda$ = 20 $\mu$ m)
	300 divisions	28 KHz (33.6 m/min on a scale where $\lambda$ = 20 $\mu$ m)	800 divisions	8 KHz (9.6 m/min on a scale where $\lambda$ = 20 µm)	3600 divisions	1.1 KHz (1.3 m/min on a scale where $\lambda$ = 20 µm)
	200 divisions	42 KHz (50 m/min on a scale where $\lambda$ = 20 µm)	640 divisions	10 KHz (12.0 m/min on a scale where $\lambda$ = 20 µm)	2400 divisions	1.8 KHz (2.1 m/min on a scale where $\lambda$ = 20 µm)
	120 divisions or less	70 KHz (84 m/min on a scale where $\lambda$ = 20 $\mu$ m)	500 divisions	15 KHz (18.0 m/min on a scale where $\lambda$ = 20 µm)	1200 divisions	4.7 KHz (5.6 m/min on a scale where $\lambda$ = 20 µm)
Minimum phase difference	100 ns					
Sin, Cos signal	0.6 Vp-p to 1.2 Vp-p with 120 Ω load				0.8 Vp-p to 1.2 Vp-p with 120 Ω load	
Sin, Cos signal Compensation range Reference point signal		0.75 Vp-p	o 1.2 Vp-p		0.9 Vp-p to 1.2 Vp-p	
Reference point signal	0.2 V to 1 Vp-p with 120 Ω load			0.2 V to 1 Vp-p with 120 Ω load		
Alarms *1	Speed alarm (minimum phase difference time or maximum response frequency)				Speed alarm (minimum phase difference time or	
	Level alarm (0.6 Vp-p or less)				maximum response frequency) Level alarm (0.7 Vp-p	
	Minimum alarm time: approximately 400 ms				or less) Minimum alarm time: approximately 400 ms	
Hysteresis	λ/ 2048					
Linearity	± λ / 1024*2					
System startup time	Within 0.5 seconds after the power comes on line					
External dimensions	138 x 93 x 26 (mm) / 5.43" x 3.66" x 1,024" including protrusions					
Operating temperature	0 °C to 45 °C / 32 °F to 114 °F					
Storage temperature	-20 °C to 60 °C / -4 °F to 140 °F					
Mass	350g/ 0.772 lbs					
Supplied accessories	Manual, output connector, connector cap, mounting screws					
Options	SET-P15-1 (for external reference point) Scale extension cable, external reference point extension cable					
	Output connector with cable					

<sup>\*1:</sup> The alarm function may not operate when the head output signal hes an abnormal offset voltage generated due to a broken wire, etc.
\*2: Only applies under ideal signal conditions.
\*Contact us directly if you have special requirements for the specifications.



## **System configuration**



### **Dimensions**

