MJ

MJ500/600/700

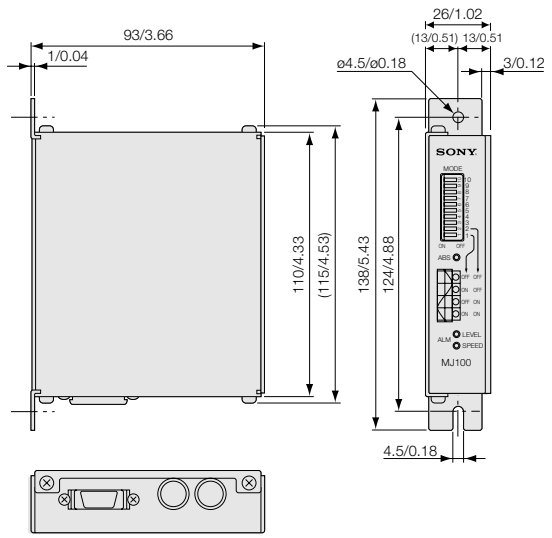
Can be connected to commercially available analog output scales

- 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.

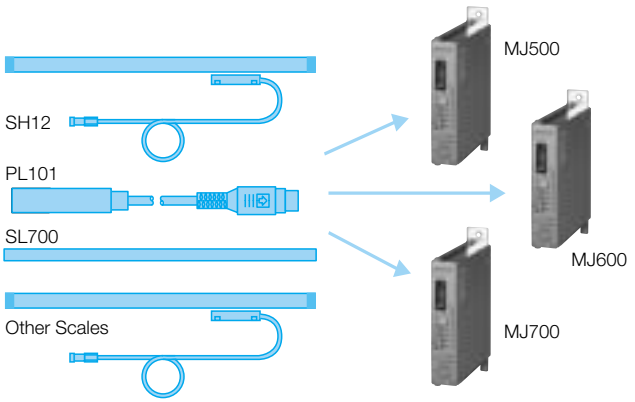
Example for connection

Scale	Head	Cable	Interpolator
SL700	PL101	CE08 CK-T12/13/14/15/16	MJ500/600/700

Dimensions



System Configuration



Unit : mm/inch

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 compliance)					
Outputs		A/B quadrature, Z phase, alarms					
Number of divisions		400,360,300,240,120,100,80; 1/2 of each of these (which does not satisfy the synchronized reference point specifications.)		1024,1000,960,800,720,640,512,500; 1/2 of each of these (which does not satisfy the synchronized reference point specifications.)		4000,3600,2560,2400,2000,1800,1280,1200; 1/2 of each of these (which does not satisfy the synchronized reference point specifications.)	
Maximum response frequency		400 divisions 300 divisions 200 divisions 120 divisions or less	20 KHz (24.0 m/min on a scale where l = 20 µm) 25 KHz (33.6 m/min on a scale where l = 20 µm) 42 KHz (50 m/min on a scale where l = 20 µm) 70 KHz (84 m/min on a scale where l = 20 µm)	1024 divisions 800 divisions 640 divisions 500 divisions	6 KHz (7.2 m/min on a scale where l = 20 µm) 8 KHz (9.6 m/min on a scale where l = 20 µm) 10 KHz (12.0 m/min on a scale where l = 20 µm) 15 KHz (18.0 m/min on a scale where l = 20 µm)	4000 divisions 3600 divisions 2400 divisions 1200 divisions	1 KHz (1.2 m/min on a scale where l = 20 µm) 1.1 KHz (1.3 m/min on a scale where l = 20 µm) 1.8 KHz (2.1 m/min on a scale where l = 20 µm) 4.7 KHz (5.6 m/min on a scale where l = 20 µm)
Minimum phase difference		100 ns					
Input level	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	
	Compensation range	0.75 Vp-p to 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) Level alarm (0.6 Vp-p or less) Minimum alarm time: approximately 400 ms				Speed alarm (minimum phase difference time or maximum response frequency) Level alarm (0.7 Vp-p or less) Minimum alarm time: approximately 400 ms	
Hysteresis		l / 2048					
Linearity		± l / 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 1.02" including protrusions					
Operating temperature		0 ℃ to 45 ℃ / 32 ℉ to 113 ℉					
Storage temperature		-20 ℃ to 60 ℃ / -4 ℉ to 140 ℉					
Mass		350g/ 0.77 lbs					
Supplied accessories		Manual, output connector, connector cap, mounting screws					
Options		SET-P16-1 (for external reference point) Scale extension cable, external reference point extension cable Output connector with cable					

*1: The alarm function may not operate when the head output signal has 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.