MJ820 /821

Generalized interpolator with serial-interface output for FANUC CNCi series and its successor models

- •Connectable to any general analog-output encoder. Input impedance: 120 Ω 1 Vp-p voltage differential input
- •Max. response frequency 140 kHz for any number of divisions selected
- •Switch-selectable number of divisions:40,80,100,120,160,200,240,400, 480,500,800,1000,1600,2000,3200,4000
- Compensation: DC offset, gain and phase
- Power supply: 5 V DC (4.5 to 5.5 V) for MJ820; 12 V to 24 V DC (11V to 32V) for MJ821
- •Compatible with Sony's linear scales SH12 and SL700 series with PL101

Specifications

MJ820	MJ821
Power	
DC5 V (DC4.5 to 5.5 V)	DC12 to 24V (DC11 to 32 V)
3 W	
100 ms	
4A or less (with 5 V)	3A or less (with 12 V)
Fuse	
Communication	
Voltage-differential line driver/ receiver complying with EIA-422 (SN75C1167 or equivalent)	
Dedicated Fanuc serial interface protocol	
Interpolator	
1Vp-p (Max.1.2Vp-p) impedance 120 Ω TYP	
4000,3200,2000,1600,1000,800,500,480,400,240,200,160,120,100,80,40	
140 kHz* ¹	
"1" is sent to a designated flag at time of speed alarm and level warn	ing*2 All LEDs flash at the time of compensated data backup error*3
0 to 55 °C (no condensation)	
-20 to 65 °C (20 to 90%RH)	
380 g	
Power supply plug1 (MJ821 only) Connector cap.	1 Supplement1 Binding band1 (MJ821 only)
Ferrite core1 Mounting screws (4 x 10)2	
	Voltage-differential line driver/ receiver comply Dedicated Fanuc ser 1Vp-p (Max.1.2Vp-p) in 4000,3200,2000,1600,1000,800,500, 140 k "1" is sent to a designated flag at time of speed alarm and level warm 0 to 55 °C (no -20 to 65 °C (2 380 Power supply plug1 (MJ821 only) Connector cap.

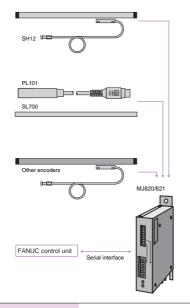
^{*1: 140} kHz applies when sine and cosine signals within a designated range are applied to MJ820/821. Max. response frequency may be lower than 140kHz with change in input signal level or off-set value.

*2: Speed alarm is triggered when max. response speed is exceeded or at the time of erroneous counting due to noise. Level warning is triggered when the sine and cosine signal input level is lower than 0.3 to 0.5Vp-p.

*3: All LEDs light at the next power-on in case, at the time of data compensation, the compensated data was not correctly backed up.

System configuration





Dimensions

