

Troubleshooting Err84.0

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Cause & Solutions of Err84.0 (Timeout)

	Situation	Cause	Solution
A	When replacing the communication cable, it gets well. When shaking the plug, Err84.0 frequency is changed.	Connector contact failure	Change connector plug manufacturer.
В	The frequency of communication error is high. This error counts can be indicated on 7- segment LED. When installing ferrite cores or removing shield, the frequency is changed.	Noise When communication data is broken, it becomes Err83.0. But when a part identifying frame type is broken, the frame is thrown away as a waste. Thus, it makes frame lost in itself and the following nodes. When this situation is continued for a certain time, it causes Err84.0.	Remedy against noise such as installing ferrite cores. Confirm whether certain shielding is done or not. If earth-potential is unstable, remove shield.
С			Verify power source and operation of Master.
D	It depends on a certain servo drive, and the following nodes detect timeout or communication error.	Servo drive failure	Replace the drive. Contact us through your local distributor.

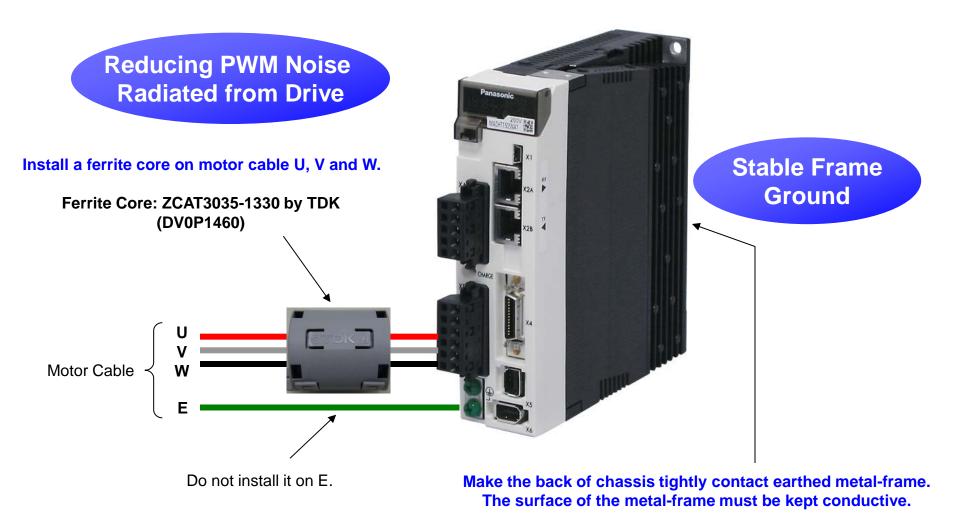
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Communication Error Counter

When Err84.0, measure frequency of the communication error to distinguish causes. Communication error counts can be indicated on 7-segment LED. (Pr7.00 = 3)

Pr 7.00	Information on display	Remarks	
0	Normal display	[-]: servo OFF, [00]: servo ON	
1	Mechanical angle	 Range: 0 to FFF hex. 0: zero position of 1 revolution data of encoder. Data increments as motor turns CCW. When the displayed value exceeds [FF], the count is reset to [0] and restarted. When the incremental encoder is used, upon turning ON of the control power, [nF] (not Fixed) is displayed until zero position of the encoder is detected. 	
2	Electrical angle	Display range: 0 to FF hex. 0: the position where U phase induced voltage reaches the positive peak. Data increments as motor turns CCW. When the displayed value exceeds [FF], the count is reset to [0] and restarted.	
3	RTEX Accumulated communication error counts	Display range: 0 to FF hex. Max. accumulated communication error counts: FFFF hex. Only the least significant byte is displayed. When the displayed value exceeds [FF], the count is reset to [00] and restarted. * Accumulated communication error counts will be cleared upon turning OFF of the control power	
5	Encoder Accumulated communication error counts		
6	External scale Accumulated communication error counts	source.	
4	Node address value	Displays the value set on rotary switch (node address) and read upon power-up, in decimal number. After power-up, the value cannot be changed from the rotary switch.	
7	Z phase counter	When the incremental external scale is used in full closed control, displays the value of Z phase counter read from external scale: 0–F hex. * This displayed value is not affected by the value of Pr 3.26 Reversal of direction of external scale.	
Other	To be used by the manufacturer but not by the user.		





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