


Encoder cable reference chart

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NCR-XBGHA -250-Z	25m	<p>※If it is 25m or longer, additional external DC 5V power supply is required. External power supply unit NCR-XAD1A type is available as option. Please refer P. 67 for details.</p>	<table border="1"> <thead> <tr> <th colspan="2">P1 (Driver side)</th> <th colspan="2">J1 (Encoder side)</th> </tr> <tr> <th>Signal name</th> <th>Pin No.</th> <th>Signal name</th> <th>Pin No.</th> </tr> </thead> <tbody> <tr><td>GND</td><td>1</td><td>+5V</td><td>A1</td></tr> <tr><td>GND</td><td>2</td><td>+5V</td><td>A2</td></tr> <tr><td></td><td>3</td><td>SD</td><td>A3</td></tr> <tr><td></td><td>4</td><td></td><td>A4</td></tr> <tr><td>SD</td><td>5</td><td></td><td>A5</td></tr> <tr><td>SD*</td><td>6</td><td></td><td>A6</td></tr> <tr><td></td><td>7</td><td></td><td>A7</td></tr> <tr><td></td><td>8</td><td>FG/Ground</td><td>A8</td></tr> <tr><td></td><td>9</td><td>GND</td><td>B1</td></tr> <tr><td></td><td>10</td><td>GND</td><td>B2</td></tr> <tr><td></td><td>11</td><td>SD*</td><td>B3</td></tr> <tr><td></td><td>12</td><td></td><td>B4</td></tr> <tr><td></td><td>13</td><td></td><td>B5</td></tr> <tr><td></td><td>14</td><td></td><td>B6</td></tr> <tr><td></td><td>15</td><td></td><td>B7</td></tr> <tr><td></td><td>16</td><td>FG/Ground</td><td>B8</td></tr> <tr><td></td><td>17</td><td></td><td></td></tr> <tr><td></td><td>18</td><td></td><td></td></tr> <tr><td></td><td>19</td><td></td><td></td></tr> <tr><td></td><td>20</td><td></td><td></td></tr> <tr><td></td><td></td><td>FG/Ground</td><td>Metal</td></tr> </tbody> </table>	P1 (Driver side)		J1 (Encoder side)		Signal name	Pin No.	Signal name	Pin No.	GND	1	+5V	A1	GND	2	+5V	A2		3	SD	A3		4		A4	SD	5		A5	SD*	6		A6		7		A7		8	FG/Ground	A8		9	GND	B1		10	GND	B2		11	SD*	B3		12		B4		13		B5		14		B6		15		B7		16	FG/Ground	B8		17				18				19				20					FG/Ground	Metal			
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NCR-XBGHA -300-Z	30m																																																																																																	

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Encoder cable reference chart

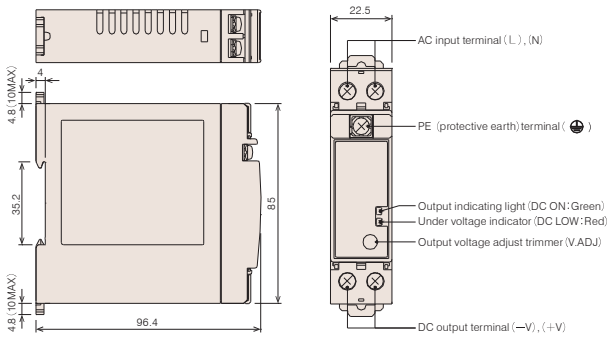
Described No.	Model	Length (L)	Encoder cable dimensions	Encoder connector ※		Signal chart																																																																																												
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E-4	NCR-XBCNA -030	3m	 <p> E-4 L=15m or shorter → Twist pair sealed cable 0.5SQ×1P+0.2SQ×6P E-4 L=16m or longer → Twist pair sealed cable 1.25SQ×1P+0.2SQ×5P E-5 L=15m or shorter → Twist pair sealed cable AWG21×1P+AWG24×6P E-5 L=16m or longer → Twist pair sealed cable AWG17×1P+AWG24×5P </p>	○ NCR-XBC8A		<table border="1"> <thead> <tr> <th colspan="2">P1 (Driver side)</th> <th colspan="2">J1 (Encoder side)</th> </tr> <tr> <th>Signal name</th> <th>Pin No.</th> <th>Signal name</th> <th>Pin No.</th> </tr> </thead> <tbody> <tr><td>GND</td><td>1</td><td>A</td><td>1</td></tr> <tr><td>GND</td><td>2 ※</td><td>A*</td><td>2</td></tr> <tr><td>+5V</td><td>3</td><td>B</td><td>3</td></tr> <tr><td>+5V</td><td>4 ※</td><td>B*</td><td>4</td></tr> <tr><td></td><td>5</td><td>Z</td><td>5</td></tr> <tr><td></td><td>6</td><td>Z*</td><td>6</td></tr> <tr><td>A</td><td>7</td><td>PS</td><td>7</td></tr> <tr><td>A*</td><td>8</td><td>PS*</td><td>8</td></tr> <tr><td>B</td><td>9</td><td>PC</td><td>9</td></tr> <tr><td>B*</td><td>10</td><td>PC*</td><td>10</td></tr> <tr><td>Z</td><td>11</td><td>+5V</td><td>11</td></tr> <tr><td>Z*</td><td>12</td><td>GND</td><td>12</td></tr> <tr><td>PS</td><td>13</td><td>+5V</td><td>13</td></tr> <tr><td>PS*</td><td>14</td><td>GND</td><td>14</td></tr> <tr><td>PC</td><td>15</td><td>FG(Ground)</td><td>15</td></tr> <tr><td>PC*</td><td>16</td><td></td><td></td></tr> <tr><td></td><td>17</td><td></td><td></td></tr> <tr><td></td><td>18</td><td></td><td></td></tr> <tr><td></td><td>19</td><td></td><td></td></tr> <tr><td></td><td>20</td><td></td><td></td></tr> <tr><td>FG(Ground)</td><td>Metal</td><td></td><td></td></tr> </tbody> </table> <p>※NCR-XBCNA / XBGIA-160~300 is not connected.</p>	P1 (Driver side)		J1 (Encoder side)		Signal name	Pin No.	Signal name	Pin No.	GND	1	A	1	GND	2 ※	A*	2	+5V	3	B	3	+5V	4 ※	B*	4		5	Z	5		6	Z*	6	A	7	PS	7	A*	8	PS*	8	B	9	PC	9	B*	10	PC*	10	Z	11	+5V	11	Z*	12	GND	12	PS	13	+5V	13	PS*	14	GND	14	PC	15	FG(Ground)	15	PC*	16				17				18				19				20			FG(Ground)	Metal		
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External power supply unit

Option for using **E-1** NCR-XBGA-250/300-Z, **E-2** NCR-XBGFB-250/300-Z, **E-3** NCR-XBGHA-250/300-Z.

Product model
NCR-XAD1A



■ Power cable without shield type (PLN: For low speed operation) list

Described No.	Model	Length (L)	Power cable Dimensions	Signal chart		
				Signal name	J1 Pin No.	Cable color
P-1	NCR-XBBAA -030	3m		U	1	Red
	-050	5m		V	2	White
	-070	7m		W	3	black
	-100	10m		E	4	Green
	-150	15m		Connector kit for power cable CSZ-MOT		
	-200	20m				
	-300	30m				
P-2	NCR-XBBDA -030	3m		U	B1	Red
	-050	5m		V	B2	White
	-070	7m		W	A1	black
	-100	10m		E	A2	Green
	-150	15m		Connector kit for power cable NCR-XBB4A		
	-200	20m				
	-300	30m				
P-3	NCR-XBBGA -030	3m		U	B1	Red
	-050	5m		V	B2	White
	-070	7m		W	A1	black
	-100	10m		E	A2	Green
	-150	15m		Connector kit for power cable NCR-XBB5A		
	-200	20m				
	-300	30m				
P-4	NCR-XBEPA -030	3m		U	B1	Red
	-050	5m		V	B2	White
	-070	7m		W	A1	black
	-100	10m		E	A2	Green
	-150	15m		Connector kit for power cable CSZ5-MOT-B		
	-200	20m				
	-300	30m				
P-5	NCR-XBEMA -030	3m		U	A	Red
	-050	5m		V	B	White
	-070	7m		W	C	black
	-100	10m		E	D	Green
	-150	15m		Connector kit for power cable NCR-XBD9A		
	-200	20m				
	-300	30m				
P-6	NCR-XBBTA -030	3m		U	A	Red
	-050	5m		V	B	White
	-070	7m		W	C	black
	-100	10m		E	D	Green
	-150	15m		Connector kit for power cable CSZ5-MOT-B		
	-200	20m				
	-300	30m				

Power cable without shield type (PHN : for high speed operation) list

Described No.	Model	Length (L)	Power cable Dimensions	Signal chart		
				Signal name	J1 Pin No.	Cable color
P-7	NCR-XBBBA -030	3m		U	1	Red
	-050	5m		V	2	White
	-070	7m		W	3	black
	-100	10m		E	4	Green
	-150	15m		Connector kit for power cable CSZ-MOT		
	-200	20m				
	-300	30m				
P-8	NCR-XBBEA -030	3m		U	B1	Red
	-050	5m		V	B2	White
	-070	7m		W	A1	black
	-100	10m		E	A2	Green
	-150	15m		Connector kit for power cable NCR-XBB4A		
	-200	20m				
	-300	30m				
P-9	NCR-XBBHA -030	3m		U	B1	Red
	-050	5m		V	B2	White
	-100	10m		W	A1	black
	-150	15m		E	A2	Green
	-200	20m		Connector kit for power cable NCR-XBB4A		
	-250	25m				
	-300	30m				

■ Power cable with shield type (PHS: for high speed operation) list

Described No.	Model	Length (L)	Power cable Dimensions	Signal chart		
				Signal name	J1 Pin No.	Cable color
P-10	NCR-XBBCA -030	3m		U	1	Red
	-050	5m		V	2	White
	-070	7m		W	3	black
	-100	10m		E	4	Green / Yellow
	-150	15m		Connector kit for power cable CSZ-MOT		
	-200	20m				
	-300	30m				
P-11	NCR-XBBFA -030	3m		U	B1	Red
	-050	5m		V	B2	White
	-070	7m		W	A1	black
	-100	10m		E	A2	Green / Yellow
	-150	15m		Connector kit for power cable NCR-XBB4A		
	-200	20m				
	-300	30m				
P-12	NCR-XBBIA -030	3m		U	A	Red
	-050	5m		V	B	White
	-070	7m		W	C	black
	-100	10m		E	D	Green / Yellow
	-150	15m		Connector kit for power cable CSZ5-MOT-B		
	-200	20m				
	-300	30m				
P-13	NCR-XBENA -030	3m		U	A	Red
	-050	5m		V	B	White
	-070	7m		W	C	black
	-100	10m		E	D	Green / Yellow
	-150	15m		Connector kit for power cable NCR-XBD9A		
	-200	20m				
	-300	30m				
P-14	NCR-XBETA -030	3m		U	A	Red
	-050	5m		V	B	White
	-070	7m		W	C	black
	-100	10m		E	D	Green / Yellow
	-150	15m		Connector kit for power cable NCR-XBD9A		
	-200	20m				
	-300	30m				

Optional products

■ Power cable with shield type (PNS: for static operation) list

Described No.	Model	Length (L)	Power cable Dimensions	Signal chart		
				Signal name	J1 Pin No.	Cable color
P-15	NCR-XBBVA -030	3m		U	A	black (1)
	-050	5m		V	B	black (2)
	-100	10m		W	C	black (3)
	-150	15m		E	D	Green / Yellow
	-200	20m		Connector kit for power cable NCR-XBD9A		
	-300	30m				