

June 24th, 2024

CK10、CM20 I/O Signal Cable Color and Pin Configuration Change Notification

Thank you for supporting Mindman products. The design change will apply to the following models. Sorry for any inconvenience may occur. Please kindly understand and cooperate.

1. Model series

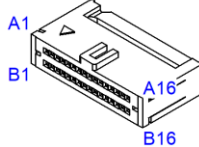
CK10-S*、CM20-S*

2. Design change reason

Optimizing pulse and encoder signal anti-interference capability.

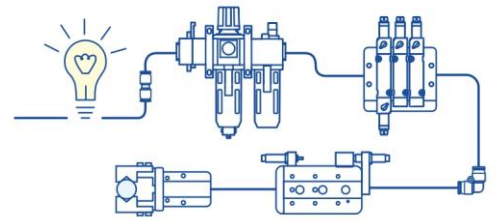
3. Change descriptions

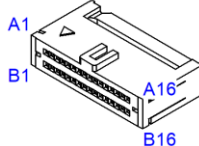
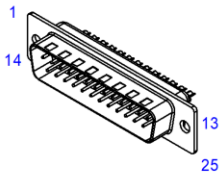
Before

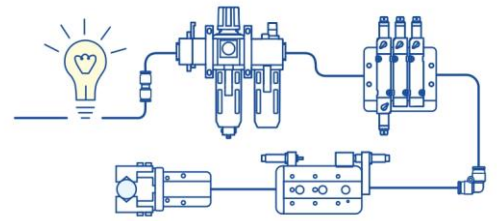


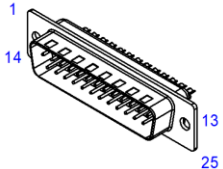
| Pin. | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 | A10 | A11 | A12 | A13 | A14 | A15 | A16 |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|-------------|----------|----------|----------|----------|
| Color | BRN /BLK | RED /BLK | ORG /BLK | YEL /BLK | GRN /BLK | BLU /BLK | PPL /BLK | GRY /BLK | WHT /BLK | WHT /RED | LT BLU /BLK | LT GRN /BLK | PNK /BLK | YEL /RED | GRY /RED | BLU /WHT |
| Name | EXT_24V | EXT_GND | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | NC | NC |

| Pin. | B1 | B2 | B3 | B4 | B5 | B6 | B7 | B8 | B9 | B10 | B11 | B12 | B13 | B14 | B15 | B16 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|----------|----------|----------|
| Color | BRN | RED | ORG | YEL | GRN | BLU | PPL | GRY | WHT | BLK | LT BLU | LT GRN | PNK | BRN /WHT | ORG /WHT | PNK /RED |
| Name | OUT 1 | OUT 2 | OUT 3 | OUT 4 | OUT 5 | OUT 6 | OUT 7 | OUT 8 | OUT 9 | OUT 10 | CTL1 + | CTL1 - | CTL2 + | CTL2 - | NC | FG |



| After |  <table border="1" style="margin-top: 10px;"> <tr><th>Pin.</th><td>A1</td><td>A2</td><td>A3</td><td>A4</td><td>A5</td><td>A6</td><td>A7</td><td>A8</td><td>A9</td><td>A10</td><td>A11</td><td>A12</td><td>A13</td><td>A14</td><td>A15</td><td>A16</td></tr> <tr><th>Color</th><td>BRN /BLK</td><td>RED /BLK</td><td>ORG /BLK</td><td>YEL /BLK</td><td>GRN /BLK</td><td>BLU /BLK</td><td>PPL /BLK</td><td>GRY /BLK</td><td>WHT /BLK</td><td>WHT /RED</td><td>PNK</td><td>PNK /BLK</td><td>BRN /WHT</td><td>YEL /RED</td><td>GRY /RED</td><td>BLU /WHT</td></tr> <tr><th>Name</th><td>EXT_24V</td><td>EXT_GND</td><td>IN1</td><td>IN2</td><td>IN3</td><td>IN4</td><td>IN5</td><td>IN6</td><td>IN7</td><td>IN8</td><td>IN9</td><td>IN10</td><td>IN11</td><td>IN12</td><td>NC</td><td>NC</td></tr> </table> <table border="1" style="margin-top: 10px;"> <tr><th>Pin.</th><td>B1</td><td>B2</td><td>B3</td><td>B4</td><td>B5</td><td>B6</td><td>B7</td><td>B8</td><td>B9</td><td>B10</td><td>B11</td><td>B12</td><td>B13</td><td>B14</td><td>B15</td><td>B16</td></tr> <tr><th>Color</th><td>BRN</td><td>RED</td><td>ORG</td><td>YEL</td><td>GRN</td><td>BLU</td><td>PPL</td><td>GRY</td><td>WHT</td><td>BLK</td><td>LT BLU</td><td>LT BLU /BLK</td><td>LT GRN</td><td>LT GRN /BLK</td><td>ORG /WHT</td><td>PNK /RED</td></tr> <tr><th>Name</th><td>OUT 1</td><td>OUT 2</td><td>OUT 3</td><td>OUT 4</td><td>OUT 5</td><td>OUT 6</td><td>OUT 7</td><td>OUT 8</td><td>OUT 9</td><td>OUT 10</td><td>CTL1 +</td><td>CTL1 -</td><td>CTL2 +</td><td>CTL2 -</td><td>NC</td><td>FG</td></tr> </table> | Pin. | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 | A10 | A11 | A12 | A13 | A14 | A15 | A16 | Color | BRN /BLK | RED /BLK | ORG /BLK | YEL /BLK | GRN /BLK | BLU /BLK | PPL /BLK | GRY /BLK | WHT /BLK | WHT /RED | PNK | PNK /BLK | BRN /WHT | YEL /RED | GRY /RED | BLU /WHT | Name | EXT_24V | EXT_GND | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | NC | NC | Pin. | B1 | B2 | B3 | B4 | B5 | B6 | B7 | B8 | B9 | B10 | B11 | B12 | B13 | B14 | B15 | B16 | Color | BRN | RED | ORG | YEL | GRN | BLU | PPL | GRY | WHT | BLK | LT BLU | LT BLU /BLK | LT GRN | LT GRN /BLK | ORG /WHT | PNK /RED | Name | OUT 1 | OUT 2 | OUT 3 | OUT 4 | OUT 5 | OUT 6 | OUT 7 | OUT 8 | OUT 9 | OUT 10 | CTL1 + | CTL1 - | CTL2 + | CTL2 - | NC | FG |
|--------|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|-------------|----------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|-------------|----------|------|------------|----------|----------|----------|----------|------|---------|---------|-----|-------|-------|-------|-------|------|-----|-----|-----|------|------|------|----|----|------|----|----|----|----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|-----|------|------|------|------|------|-----|-----|-----|-----|--------|-------------|--------|-------------|----------|----------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|----|----|
| Pin. | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 | A10 | A11 | A12 | A13 | A14 | A15 | A16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Color | BRN /BLK | RED /BLK | ORG /BLK | YEL /BLK | GRN /BLK | BLU /BLK | PPL /BLK | GRY /BLK | WHT /BLK | WHT /RED | PNK | PNK /BLK | BRN /WHT | YEL /RED | GRY /RED | BLU /WHT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Name | EXT_24V | EXT_GND | IN1 | IN2 | IN3 | IN4 | IN5 | IN6 | IN7 | IN8 | IN9 | IN10 | IN11 | IN12 | NC | NC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pin. | B1 | B2 | B3 | B4 | B5 | B6 | B7 | B8 | B9 | B10 | B11 | B12 | B13 | B14 | B15 | B16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Color | BRN | RED | ORG | YEL | GRN | BLU | PPL | GRY | WHT | BLK | LT BLU | LT BLU /BLK | LT GRN | LT GRN /BLK | ORG /WHT | PNK /RED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Name | OUT 1 | OUT 2 | OUT 3 | OUT 4 | OUT 5 | OUT 6 | OUT 7 | OUT 8 | OUT 9 | OUT 10 | CTL1 + | CTL1 - | CTL2 + | CTL2 - | NC | FG | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Note | <ol style="list-style-type: none"> The wires color shown in the change notification are for reference only. Actual colors may different due to printing or screen display settings, so please rely on the actual product. The new cable includes a product label on the terminal side for easy differentiation from the old version. CK10-S * * * - V2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Before |  <table border="1" style="margin-top: 10px;"> <tr><th>Pin.</th><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr><th>Color</th><td>BRN /BLK</td><td>RED /BLK</td><td>ORG /BLK</td><td>YEL /BLK</td><td>GRN /BLK</td><td>BLU /BLK</td><td>PPL /BLK</td><td>GRY /BLK</td><td>WHT /BLK</td><td>WHT /RED</td><td>LT BLU /BLK</td><td>LT GRN /BLK</td><td>PNK</td></tr> <tr><th>Name</th><td>+COM (24V)</td><td>NC</td><td>NC</td><td>NC</td><td>IN1</td><td>IN2</td><td>IN3</td><td>IN4</td><td>IN5</td><td>OUT 1</td><td>OUT 2</td><td>OUT 3</td><td>OUT 4</td></tr> </table> <table border="1" style="margin-top: 10px;"> <tr><th>Pin.</th><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr> <tr><th>Color</th><td>BRN</td><td>RED</td><td>ORG</td><td>YEL</td><td>GRN</td><td>BLU</td><td>PPL</td><td>GRY</td><td>WHT</td><td>BLK</td><td>LT BLU</td><td>LT GRN</td><td></td></tr> <tr><th>Name</th><td>IN7+</td><td>IN7-</td><td>IN6+</td><td>IN6-</td><td>A+</td><td>A-</td><td>B+</td><td>B-</td><td>Z+</td><td>Z-</td><td>FG</td><td>-COM (0V)</td><td></td></tr> </table> | Pin. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | Color | BRN /BLK | RED /BLK | ORG /BLK | YEL /BLK | GRN /BLK | BLU /BLK | PPL /BLK | GRY /BLK | WHT /BLK | WHT /RED | LT BLU /BLK | LT GRN /BLK | PNK | Name | +COM (24V) | NC | NC | NC | IN1 | IN2 | IN3 | IN4 | IN5 | OUT 1 | OUT 2 | OUT 3 | OUT 4 | Pin. | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | Color | BRN | RED | ORG | YEL | GRN | BLU | PPL | GRY | WHT | BLK | LT BLU | LT GRN | | Name | IN7+ | IN7- | IN6+ | IN6- | A+ | A- | B+ | B- | Z+ | Z- | FG | -COM (0V) | | | | | | | | | | | | | | | | | | | |
| Pin. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Color | BRN /BLK | RED /BLK | ORG /BLK | YEL /BLK | GRN /BLK | BLU /BLK | PPL /BLK | GRY /BLK | WHT /BLK | WHT /RED | LT BLU /BLK | LT GRN /BLK | PNK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Name | +COM (24V) | NC | NC | NC | IN1 | IN2 | IN3 | IN4 | IN5 | OUT 1 | OUT 2 | OUT 3 | OUT 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pin. | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Color | BRN | RED | ORG | YEL | GRN | BLU | PPL | GRY | WHT | BLK | LT BLU | LT GRN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Name | IN7+ | IN7- | IN6+ | IN6- | A+ | A- | B+ | B- | Z+ | Z- | FG | -COM (0V) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| After |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|---|----------|------|----------|-----|----------|-----|----------|--------|-------------|-------------|-----------|-------|----|----|-------|-----|----------|-----|----------|-----|----------|-----|----------|--------|-------------|-------------|----------|-----|------|------------|------|------|------|-----|-----|-----|-----|-----|-------|-------|-----------|
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| Pin. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Color | RED | RED /BLK | YEL | YEL /BLK | GRN | GRN /BLK | GRY | GRY /BLK | LT GRN | LT GRN /BLK | LT BLU /BLK | WHT /RED | PNK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Name | +COM (24V) | NC | NC | NC | IN1 | IN2 | IN3 | IN4 | IN5 | OUT 1 | OUT 2 | OUT 3 | OUT 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Pin. | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Color | BRN | BRN /BLK | ORG | ORG /BLK | BLU | BLU /BLK | PPL | PPL /BLK | WHT | WHT /BLK | LT BLU | BLK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Name | IN7+ | IN7- | IN6+ | IN6- | A+ | A- | B+ | B- | Z+ | Z- | FG | -COM (0V) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

3. Effective date

- It will not affect the usage of finished product, and will replace sequentially.

4. If there are any questions, please contact our sales department.