

| NO. | Signal    | Colour         | Description                         | PIN NO |
|-----|-----------|----------------|-------------------------------------|--------|
| 1   | +V        | BLACK          | +V                                  |        |
| 2   | 0V        | BROWN          | 0V                                  |        |
| 3   | A         | RED            | PULSE A                             |        |
| 4   | $\bar{A}$ | YELLOW         | PULSE $\bar{A}$ *Fanuc no function* |        |
| 5   | B         | ORANGE         | PULSE B                             |        |
| 6   | $\bar{B}$ | DARK GREEN     | PULSE $\bar{B}$ *Fanuc no function* |        |
| 7   | X         | PURPLE         | X-AXIS                              |        |
| 8   | Y         | GRAY           | Y-AXIS                              |        |
| 9   | Z         | WHITE          | Z-AXIS                              |        |
| 10  | 4         | PINK           | 4TH-AXIS                            |        |
| 11  | 5         | LIGHT GREEN    | 5TH-AXIS                            |        |
| 12  | X1        | LIGHT BLUE     | FEEDRATE x1                         |        |
| 13  | X10       | BLACK & WHITE  | FEEDRATE x10                        |        |
| 14  | X100      | BROWN & WHITE  | FEEDRATE x100                       |        |
| 15  | LED+      | RED & WHITE    | LED POWER +                         |        |
| 16  | LED-      | GREEN & WHITE  | LED POWER -                         |        |
| 17  | COM       | BLUE & WHITE   | COM                                 |        |
| 18  | OE4       | YELLOW & WHITE | *ENABLE SWITCH                      |        |
| 19  | EM2       | PURPLE & WHITE | *EMEGENCY STOP EMG1-COM             |        |
| 20  | EM3       | ORANGE & WHITE | *EMEGENCY STOP EMG1-NC              |        |
| 21  | EM5       | PINK & WHITE   | *EMEGENCY STOP EMG2-COM             |        |
| 22  | EM6       | DARK BLUE      | *EMEGENCY STOP EMG2-NC              |        |
| 23  | PE        | GND            | GND                                 |        |

**NOTE:**

- Before wiring, please check the manual encoder supply voltage, Common styles are as follows:  
 HDY111/ HC115/ HDY711/ HDY711-LRE (+5V. 100PPR. A. B)  
 HDY112/ HC121/ HDY712/ HDY712-LRE (+12V. 25PPR. A. B)  
 HDY113/ HC11D/ HDY713/ HDY713-LRE (+5V. 100PPR. A.  $\bar{A}$ . B.  $\bar{B}$ )  
 HDY124N (+24V. 100PPR. A. B. NPN)  
 HDY124P (+24V. 100PPR. A. B. PNP)
- Items marked with «\*» is optional function. It will not appears in standard model.

