

SAFETY connector signals

| Terminal number | I/O No. | Name |
|-----------------|-----------|---------------------------------------|
| 1 | DI.COM | Dedicated input common |
| 2 | INTERLOCK | Interlock signal |
| 3 | SERVICE | SERVICE mode input |
| 4 | DO.COM | Dedicated output common |
| 5 | MPRDY | Main power supply ready |
| 6 | SERVO OUT | Servo-on state output |
| 7 | NC | No connection |
| 8 | KEY1 | RPB key switch contact |
| 9 | KEY2 | RPB key switch contact |
| 10 | 24VGND | EMG 24V, GND |
| 11 | EMG24V | Power supply for emergency stop input |
| 12 | EMGRDY | Emergency stop ready signal |
| 13 | EMGIN1 | Emergency stop input 1 |
| 14 | EMGIN2 | Emergency stop input 2 |
| 15 | EMGIN3 | Emergency stop input 3 |
| 16 | EMGIN4 | Emergency stop input 4 |
| 17 | LCKIN1 | Enable switch input 1 |
| 18 | LCKIN2 | Enable switch input 2 |
| 19 | LCKIN3 | Enable switch input 3 |
| 20 | LCKIN4 | Enable switch input 4 |

Standard I/O [connector name: STD. DIO] signal table

| Terminal number | Signal name | Name | |
|-----------------|-------------|--|------------------------------------|
| | | RCX221 | RCX222 |
| 1 | DI01 | Servo ON | |
| 2 | DI10 | Sequence program control | |
| 3 | DI03 | Step run | |
| 4 | CHK1 | Check input 1 | |
| 5 | DI05 | I/O command run | |
| 6 | DI06 | Spare ^{Note 1} | |
| 7 | DI07 | Spare ^{Note 1} | |
| 8 | DI20 | General input 20 | |
| 9 | DI21 | General input 21 | |
| 10 | DI22 | General input 22 | |
| 11 | DI23 | General input 23 | |
| 12 | DI24 | General input 24 | |
| 13 | DI25 | General input 25 | |
| 14 | DI26 | General input 26 | |
| 15 | DI27 | General input 27 | |
| 16 | DO00 | EMG monitor (emergency stop monitor) | |
| 17 | DO01 | CPU OK | |
| 18 | DO10 | AUTO mode | |
| 19 | DO11 | Return-to-origin complete | |
| 20 | DO12 | Sequence program in progress | |
| 21 | DO13 | Auto operation in progress | |
| 22 | DO14 | Program reset output | |
| 23 | DO15 | Battery alarm output ^{Note 2} | |
| 24 | DO16 | END | |
| 25 | DO17 | BUSY | |
| 26 | DI12 | Auto operation start | |
| 27 | DI13 | AUTO mode switching | |
| 28 | DI14 | ABS reset (Not in use normally) | Return-to-origin ^{Note 3} |
| 29 | DI15 | Program reset | |
| 30 | DI16 | MANUAL mode | |
| 31 | DI17 | Return-to-origin (In use normally) | ABS reset ^{Note 4} |
| 32 | DI30 | General input 30 | |
| 33 | DI31 | General input 31 | |
| 34 | DI32 | General input 32 | |
| 35 | DI33 | General input 33 | |
| 36 | DI34 | General input 34 | |
| 37 | DI35 | General input 35 | |
| 38 | DI36 | General input 36 | |
| 39 | DI37 | General input 37 | |
| 40 | CHK2 | Check input 2 | |
| 41 | DO02 | Servo-on state | |
| 42 | DO03 | Alarm | |
| 43 | DO20 | General output 20 | |
| 44 | DO21 | General output 21 | |
| 45 | DO22 | General output 22 | |
| 46 | DO23 | General output 23 | |
| 47 | DO24 | General output 24 | |
| 48 | DO25 | General output 25 | |
| 49 | DO26 | General output 26 | |
| 50 | DO27 | General output 27 | |

Note 1. Use of DI06, DI07 is prohibited.

Note 2. DO15 is a memory backup battery voltage drop alarm output.

Note 3. Set origin return for axes using incremental specifications and axes using semi-absolute specifications.

Note 4. Set origin return on axes using absolute specifications.

Area check output can be assigned to DO20 to DO157.
 (Area check output assignment differs depending on the controller software version. See the user's manual for details.)

Option I/O [connector name: OP. DIO] signal table

| Terminal number | Signal name | Name |
|-----------------|-------------|----------------|
| 1 | – | Spare |
| 2 | DI40 | General input |
| 3 | – | Spare |
| 4 | DI41 | General input |
| 5 | – | Spare |
| 6 | – | Spare |
| 7 | – | Spare |
| 8 | DI50 | General input |
| 9 | DI51 | General input |
| 10 | DI52 | General input |
| 11 | DI53 | General input |
| 12 | DI54 | General input |
| 13 | DI55 | General input |
| 14 | DI56 | General input |
| 15 | DI57 | General input |
| 16 | – | Spare |
| 17 | – | Spare |
| 18 | DO30 | General output |
| 19 | DO31 | General output |
| 20 | DO32 | General output |
| 21 | DO33 | General output |
| 22 | DO34 | General output |
| 23 | DO35 | General output |
| 24 | DO36 | General output |
| 25 | DO37 | General output |
| 26 | DI42 | General input |
| 27 | DI43 | General input |
| 28 | DI44 | General input |
| 29 | DI45 | General input |
| 30 | DI46 | General input |
| 31 | DI47 | General input |
| 32 | DI60 | General input |
| 33 | DI61 | General input |
| 34 | DI62 | General input |
| 35 | DI63 | General input |
| 36 | DI64 | General input |
| 37 | DI65 | General input |
| 38 | DI66 | General input |
| 39 | DI67 | General input |
| 40 | – | Spare |
| 41 | – | Spare |
| 42 | – | Spare |
| 43 | DO40 | General output |
| 44 | DO41 | General output |
| 45 | DO42 | General output |
| 46 | DO43 | General output |
| 47 | DO44 | General output |
| 48 | DO45 | General output |
| 49 | DO46 | General output |
| 50 | DO47 | General output |

APPLICATION
 TRANSSERVO
 Compact
 single-axis robots
 FLIP-X
 Single-axis robots
 PHASER
 Linear motor
 single-axis robots
 XY-X
 Cartesian
 robots
 YK-XG
 SCARA
 robots
 YP-X
 Pick & place
 robots
 CLEAN
 CONTROLLER
 INFORMATION
 Robot
 positioner
 Pulse string
 driver
 Robot
 controller
 IVY
 Electric
 gripper
 Option