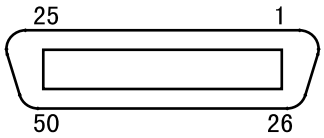
(2) INPUT CN8: User-/System-input connector (standard mode)

CN8 Pin Assignment, in standard mode (PNP type)



View from the cable side

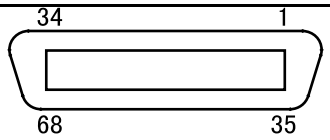
Terminal number	Name	Port number	Wire color	Terminal number	Name	Port number	Wire color
*1	Power for robot stop (internal +24V)	—	Black	26	Data area 2 bit 7	21	Pink
*2	Robot stop	—	Brown	27	Data area 2 bit 8	22	Pink
3	Power for Enable Auto (internal +24V)	—	Red	28	Data area 2 bit 9	23	Pink
4	Enable Auto	—	Black	29	Data area 2 bit 10	24	White
5	Step-stop (all tasks)	0	Brown	30	Data area 2 bit 11	25	White
6	Not used.	1	Red	31	Data area 2 bit 12	26	White
7	Instantaneous stop (all tasks)	2	Orange	32	Data area 2 bit 13	27	White
8	Strobe signal	3	Yellow	33	Data area 2 bit 14	28	White
9	Interrupt skip	4	Green	34	Data area 2 bit 15	29	White
10	Command and data odd parity	5	Blue	35	Command area 0 bit 0	30	White
11	Data area 1 bit 0	6	Violet	36	Command area 0 bit 1	31	White
12	Data area 1 bit 1	7	Black	37	Command area 0 bit 2	32	Gray
13	Data area 1 bit 2	8	Brown	38	Command area 0 bit 3	33	Gray
14	Data area 1 bit 3	9	Red	39	User input	34	Gray
15	Data area 1 bit 4	10	Orange	40	User input	35	Gray
16	Data area 1 bit 5	11	Yellow	41	User input	36	Gray
17	Data area 1 bit 6	12	Green	42	User input	37	Gray
18	Data area 1 bit 7	13	Blue	43	User input	38	Gray
19	Data area 2 bit 0	14	Violet	44	User input	39	Gray
20	Data area 2 bit 1	15	White	45	User input	40	Gray
21	Data area 2 bit 2	16	Pink	46	User input	41	Gray
22	Data area 2 bit 3	17	Black	47	User input	42	Violet
23	Data area 2 bit 4	18	Brown	48	User input	43	Violet
24	Data area 2 bit 5	19	Red	49	User input	44	Violet
25	Data area 2 bit 6	20	Orange	50	User input	45	Violet

NOTE 1: The optional I/O cable for the above connector consists of twisted pair wires--pairs of #1 and #26, #2 and #27,…#25 and #50.
NOTE 2: The terminal number marked with (*) is not used for “Dual emergency stop type”.

6.1.3 Connector Pin Assignment in Compatible Mode

(1) OUTPUT CN10: User-/System-output connector (compatible mode)

CN10 Pin Assignment, in compatible mode (PNP type)



View from the cable side

Terminal number	Name	Port number	Wire color	Terminal number	Name	Port number	Wire color
1	Normal CPU	72	Black	35	User output	106	Pink
2	Robot-in-operation	73	Brown	36	User output	107	Pink
3	Robot failure	74	Red	37	User output	108	Pink
4	Auto mode	75	Orange	38	User output	109	Pink
5	External mode	76	Yellow	39	User output	110	Pink
6	Program start reset	77	Black	40	User output	111	White
7	Not used.	78	Brown	41	User output	112	White
8	Not used.	79	Red	42	User output	113	White
9	Robot power ON complete	80	Orange	43	User output	114	White
10	Servo ON	81	Yellow	44	User output	115	White
11	CAL complete	82	Green	45	User output	116	White
12	Teaching	83	Blue	46	User output	117	White
13	Single-cycle complete	84	Violet	47	User output	118	White
14	Dead battery warning	85	Gray	48	User output	119	White
15	Robot warning	86	Pink	49	User output	120	White
16	Continue start permitted	87	Black	50	User output	121	Gray
17	Error units bit 0	88	Black	51	User output	122	Violet
18	Error units bit 1	89	Brown	52	User output	123	Violet
19	Error units bit 2	90	Red	53	User output	124	Violet
20	Error units bit 3	91	Orange	54	User output	125	Violet
21	Error tens bit 0	92	Yellow	55	User output	126	Violet
22	Error tens bit 1	93	Green	56	User output	127	Violet
23	Error tens bit 2	94	Blue	57	Not connected	—	Violet
24	Error tens bit 3	95	Gray	58	Not connected	—	Violet
25	Error hundreds bit 0	96	Pink	*59	[Power supply for Robot stop 1 (Internal +24V)]	—	Violet
26	Error hundreds bit 1	97	Brown	*60	[Robot stop 1]	—	Gray
27	Error hundreds bit 2	98	Red	*61	[Power supply for Robot stop 2 (Internal +24V)]	—	Gray
28	Error hundreds bit 3	99	Orange	*62	[Robot stop 2]	—	Gray
29	SS mode	100	Yellow	*63	[Emergency stop (+)]	—	Gray
30	Not used.	101	Green	*64	[Emergency stop (-)]	—	Gray
31	Not used.	102	Blue	65	Emergency stop 2 (+)	—	Gray
32	Not used.	103	Pink	66	Emergency stop 2 (-)	—	Gray
33	User output	104	Black	*67	[Deadman switch (+)]	—	Blue
34	User output	105	Brown	*68	[Deadman switch (-)]	—	Blue

NOTE 1: The optional I/O cable for the above connector consists of twisted pair wires--pairs of #1 and #35, #2 and #36, #34 and #68.
NOTE 2: The terminal number marked with (*) is used only for “Dual emergency stop type”.