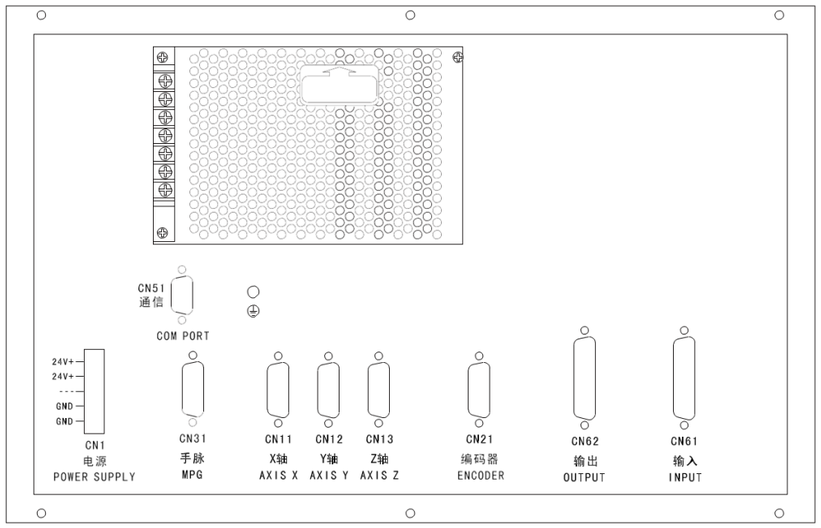
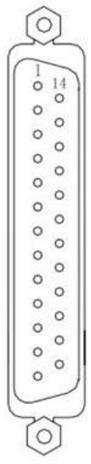
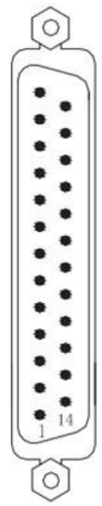


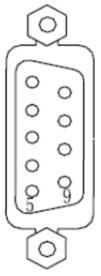


Foot number	address	function	illustrate
3、10、19	0V	Power connector	Power supply 0V
4、7、11、16、20、23	+24V	Power connector	Power supply +24V
1	X0.0	WQPJ	Internal/external chuck release/clamping in place signal/Y-axis back-to-zero deceleration signal
14	X0.1	SP	External pause signal
2	X0.2	DIQP	Chuck controls input
15	X0.3	DECX	X-axis zero reduction signal/G31 jump signal
17	X0.4	DITW	Tail axis controls input
5	X0.5	ESP	Emergency stop signal
18	X0.6	TCP	Tool holder lock signal / spindle positioning completion signal / protective door signal / lubrication detection signal
6	X0.7	T01	Tool position signal T01
8	X1.0	T02	The tool position signal T02/M89K0 detects the signal/macro input #1000
21	X1.1	T03	The tool position signal T03/M89K1 detects the signal/macro input #1001
9	X1.2	T04	The tool position signal T04 / M89K2 detects the signal / macro input #1002
22	X1.3	DECZ	Z-axis zero-back deceleration signal / M89K3 heartbeat / macro input #1003
24	X1.4	ST	External loop start/M89K4 heartbeat/macro input #1004
12	X1.5	LMIX	X-axis overrange/1-gear-in-place signal M89K5 heartbeat/macro input #1005
25	X1.6	LMIZ	Z-axis overrange/2-gear-in-place signal M89K6 heartbeat/macro input #1006
13	X1.7	NQPJ	Internal/external chuck clamping/loosening in place signal/Y-axis overrun/M89K7 heartbeat/macro input #1007

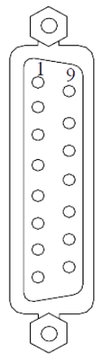


Foot number	address	function	illustrate
3、7、10、16、19、23	0V	Power connector	Power supply 0V
4、11、20	+24V	Power connector	Power supply +24V
1	Y0.0	COOL	Cooling output (M08/M09)
14	Y0.1	M32	Lubrication output (M32/M33)
2	Y0.2	SPJD	Spindle brake/spindle directional output/M89 I0
15	Y0.3	M03	Spindle forward M03
17	Y0.4	M04	Spindle reversal M04
5	Y0.5	M05	Spindle stop M05/ spindle position output/M89 I1
18	Y0.6	DOTWJ	Tail seat into M10
6	Y0.7	DOTWS	Tail seat retraction M11
8	Y1.0	SI/M41	Mechanical gear 1 output / yellow light / M89 I2
21	Y1.1	S2/M42	Mechanical gear 2 output / green light / M89 I3
9	Y1.2	S3/M43	Mechanical gear 3 output / red light / M89 I4
22	Y1.3	S4/M44	Mechanical gear 4 output / (guard door) M34/M35/ M89 I5
24	Y1.4	DOQPJ	Chuck clamped M12
12	Y1.5	DOQPS	The chuck releases the M13
25	Y1.6	TL+	The knife holder is forward / M89 I6
13	Y1.7	TL-	Knife holder reversal / M89 I7

1:
2: RXD
3: TXD
4:
5: GND
6:
7:
8:
9:



1: nCP+
2: nDIR+
3: nPC
4: +24V
5: nALM
6: nSET
7: nEN
9: nCP-
10: nDIR-
11: 0V
12: +5V
13: +5V
14: 0V
15: 0V



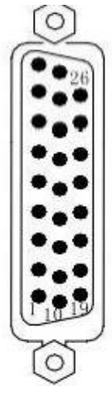
Axis CN11,CN12, CN13,CN14

1	nCP+
9	nCP−
2	nDIR+
10	nDIR−
5	nALM
3	nPC
11	0V
4	+24
Metal shell	

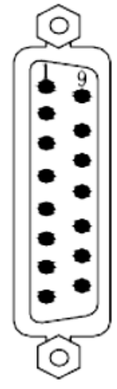
DA98 (A) Driver unit interface

18	PULS+
6	PULS−
19	SIGN+
7	SIGN−
15	ALM
5	CZCOM
21	SON
3	DG
2	CZ
20	COM+
10	RSTP
4	DG
17	DG
22	FSTP
Metal shell	

13: 0V
12: 0V
11: 0V
10: 0V
9: X5.5
8: X5.2
7:
6: X5.1
5: X5.0
4: HB-
3: HB+
2: HA-
1: HA+
26:
25:
24:
23: X5.7
22: X5.6
21: X5.4
20: X5.3
19:
18: +24V
17: +24V
16: +5V
15: +5V
14: +5V



8: PAS
7: *PAS
6: PBS
5: *PBS
4: PCS
3: *PCS
15: 0V
14: 0V
13: +5V
12: 5V
11: 0V

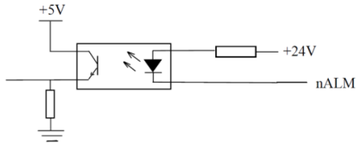


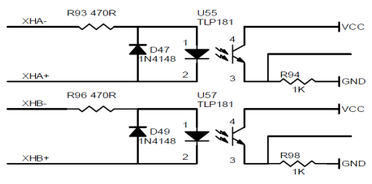
(CN51)

3	TXD
2	RXD
5	GND
Metal shell	

PC RS232 interface

2	RXD
3	TXD
5	GND
Metal shell	





(CN21)

3	*PCS
4	PCS
5	*PBS
6	PBS
7	*PAS
8	PAS
11	0V
12	+5V
Metal shell	

ZLF-12-102.4BM-C05D

8	Z
2	Z
6	B
3	B
7	A
5	A
4	0V
11	+5V

(CN31) Handwheel

1	HA+	A
3	HB+	B
11	0V	0V
14	+5V	+5V
2	HA−	Empty
4	HB−	
Metal shell		

Single-ended input

(CN31) Handwheel

1	HA+	A+
2	HA−	A−
3	HB+	B+
4	HB−	B−
14	+5V	+5V
11	0V	0V
Metal shell		Empty

Differential input