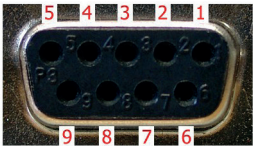
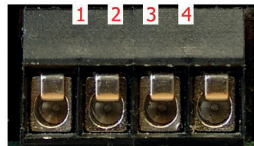


**A** Referenz-switch



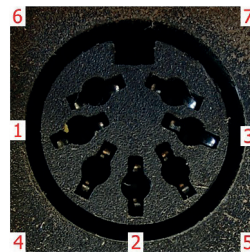
	2	Input A-Axis	E5
WH	3	Input Z-Axis	E3
YE	4	Input Y-Axis	E2
GN	5	Input X-Axis	E1
BN	8	GND	

**B** Relais 3 + 4



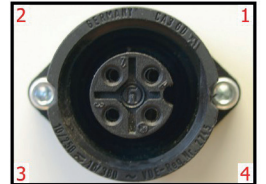
Σ	1	Relais 3	potential free 4A
	2	Relais 3	
Σ	3	Relais 4	potential free 4A
	4	Relais 4	

**C** Tool-Lenght Sensor



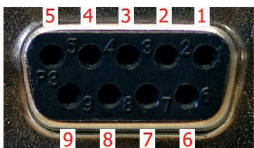
1	GND	WLS
2	+5V	
3	Input	

**H** Brake Z-Axis  
from 04/2018



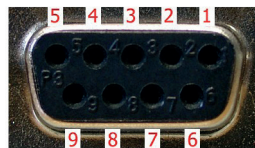
1	-
2	+19V to Brake
3	-
	GND/Ground to Brake

**E** Axis X-Y-Z-A



WH	1	Motor Winding	A
BN	2	Motor Winding	A-
GN	3	Motor Winding	B
YE	4	Motor Winding	B-
	7	Referenzswitch OPTION	EX
	8	Referenzswitch OPTION	GND

**F** Handwheel



1	Not-Stop
2	Communication
3	Communication
4	Communication
5	Not-Stop
6	GND
7	GND
8	Communication
9	Communication

**G** Spindel-speed



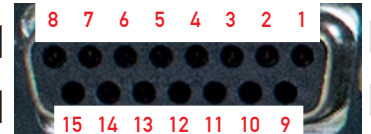
1	Spindelspeed	0-10V
2	Spindelspeed	GND
3		+5V
4	Ground	GND
5		-
6		-
7		-
8	OPTIONAL	0-20mA
9	OPTIONAL	GND

**D** NOT-Stop ext. Start



1	NOT-Stop	Σ
9	NOT-Stop	
3	ext. Start	Σ
7	ext. Start	

**I** E/A-Port



	1	E12
	2	E14
	3	E16
	4	A5
	5	A7
	6	A9
	7	A11
Σ	8	+ 5V
	9	E13
	10	E15
	11	GND
	12	A6
	13	A8
	14	A10
	15	A12

Pin 8 + 10  
Hoodswitch

OUTPUT

Electrical diagram	Description
	- Open Collector Output - max current 300 mA

INPUT

Electrical diagram	Description
	- Voltage controlled input - min voltage +5 V - max voltage +24 V