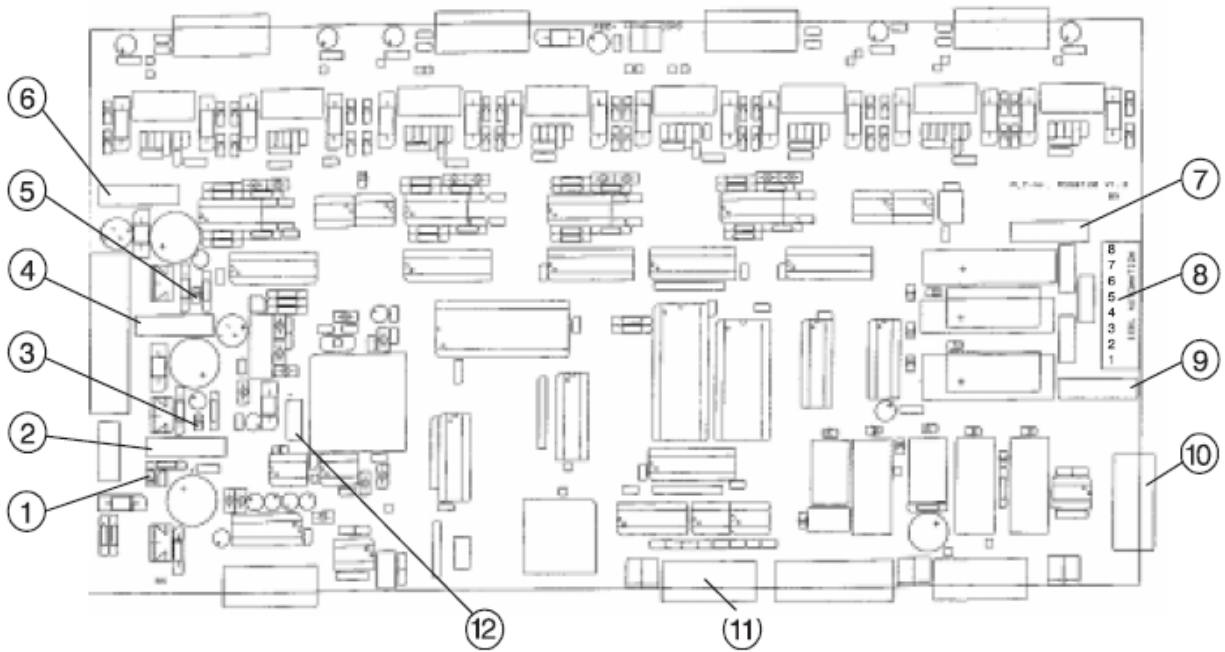


e.lens Drill Machine Specifications

Measurements w x d x h [mm]	515 x 580 x 615		
Movement areas X/Y/Z [mm]	200/175/90		
maximum axis speeds [mm/s] (without a load)	50	all axes with 10 mm leadscrew pitch	
Pass-through height [mm]	90		
Clamping table [mm]	250 x 425		
T-slot raster [mm]	25		
Type 2 and 3			
Approx. weight [kg]	71		
Sound pressure level	78 decibel (A)		
Mains rating	230 V, 50 Hz, 16 Amp		
Max. power consumption	1150 W		
Fusing	power input 2 x 6.3 Amps, slow-blow HBD		
Earthing	corresponds to protection class I.		
Electric connections	2 x 24 V, optional, switchable, 20 mA via optical isolator 1 x 230 V, optional, switchable, 100 W 1 x 230 V, switchable for the tooling machine		
Tooling machine (model 3)	500 W, 11.000 - 25.000 r.p.m., firmly wired		
EMC test according to	EN 55011-B and EN 50082-1		

Please refer to the following drawing for the positions of fuses (②, ④, ⑥, ⑦, ⑨) and LED's (①, ③, ⑤).



Controller printed circuit board behind the rear-panel

- | | |
|-------------------------------------|-----------------------------------|
| ① Controller LED | Processor supply voltage 10 V/5 V |
| ② Inputfuse | 1,25 Amp, slow ones |
| ③ Controller LED | 24 V I/O voltage |
| ④ Inputfuse | 1,25 Amp, slow-blow |
| ⑤ Controller LED | 24 V safety circuit voltage |
| ⑥ Inputfuse | 1,25 Amp, slow-blow |
| ⑦ Supplementary output fuse | 230 V, 1,25 Amp, slow-blow HBD |
| ⑧ Supplementary output connector | 230 V |
| ⑨ Tooling machine fuse | 230 V, 5 Amp, slow-blow HBD |
| ⑩ suppl. outp. 9-pin Sub-D f. con. | 15 mA max. |
| ⑪ suppl. inp. 9-pin Sub-D fem. con. | |
| ○ H1 jumper field | |

To the 24 V outputs:

You can tap the voltage at the 9-pin Sub D connector ⑩.

The switching outputs OPTO-5 and OPTO-6 are carried out with optical isolators with emitters led outwards. They are available for signaling. These outputs are not disconnected in case of Emergency-Off.

You must connect your loads against GND 24 V I/O (pins 6 to 9).

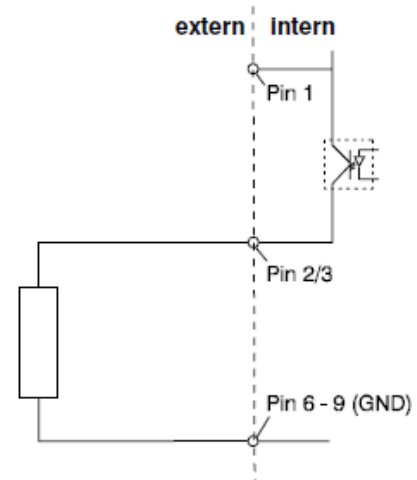
The maximum switching current should not exceed 15 mA!



The switching outputs are not short-circuit-protected.

Pin	Description
1	+ 24 V I/O voltage
2	out OPTO-5 (bit 5) open emitters
3	out OPTO-6 (bit 6) open emitters
4	free
5	+ 24 V I/O voltage
6	GND 24 V
7	GND 24 V
8	GND 24 V
9	GND 24 V

Connection example:

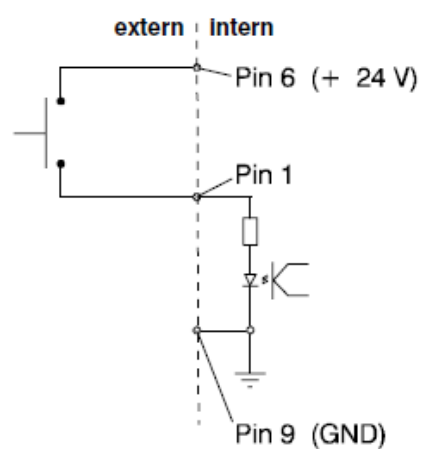


To the 24 V inputs:

Use the 9-pin Sub D connector ⑪ (see image page 19). The input is carried out using an optical isolator with the anode led outwards. The necessary series resistor is available on the printed circuit board.

Pin	Description
1	user input 2
2	user input 1
3	occupied
4	occupied
5	GND 24 V
6	+ 24 V I/O voltage
7	occupied
8	occupied
9	GND 24 V

Connection example:



Use pin 6 for the 24 V control voltage of both inputs.

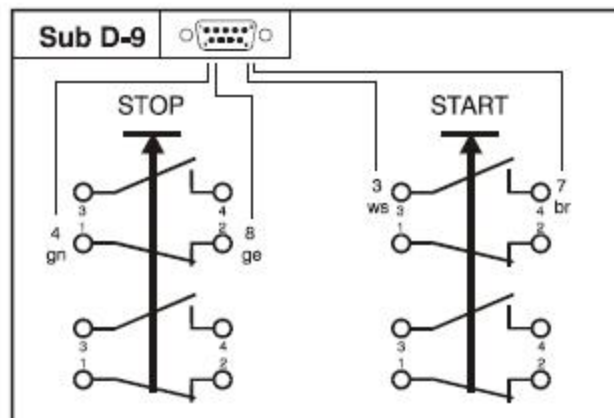
230 V output:

Use the ⑧ connector (see image page 19). **The connector carries 230 V potential!**

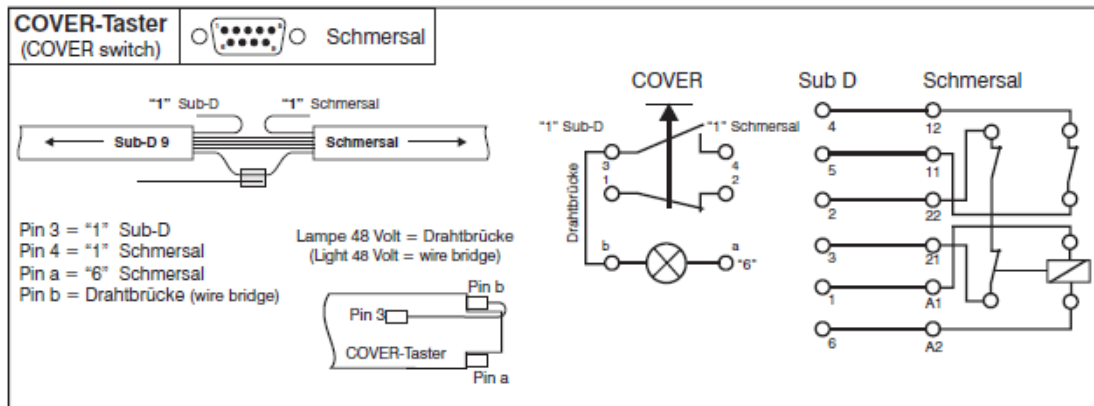
Terminal	Description
1	230 V, live supply
2	switching output tooling machine
3	switching output 230 V OUT 3 (bit 3)
4	null tooling machine
5	null supply
6	null OUT 3
7	null OUT 4
8	-

Sub D 9-pin connector, START- and STOP-switch (see page 8 item ⑤)

Signal	Pin	Pin	Signal
-	1	6	-
-	2	7	start
start	3	8	stop
stop	4	9	-
-	5		



Sub D 9-pin connector, hood switch (COVER) (see page 8 item ⑥)



Sub D 15-pin connector, POWER/Emergency-off (see page 8 items ⑦)

Signal	Pin	Pin	Signal
ON (N.O., 1. layer)	1	9	ON (N.O., 1. layer)
emergency-off (N.C., 1. layer)	2	10	lamp (in the ON-switch)
-	3	11	lamp (in the ON-switch)
-	4	12	-
emergency-off (N.C., 1. layer)	5	13	key-switch
key-switch	6	14	ON (N.O., 2. layer)
ON (N.O., 2. layer)	7	15	emergency-off (N.C., 2. layer)
emergency-off (N.C., 2. layer)	8		

