

24. COP-PIEZO (Piezo Output Stage)

COP-PIEZO

611346900

The COP-PIEZO module has two piezo output stages. The required intermediate circuit power is either generated by the module itself and supplied via step-up circuit or supplied from an external power source. The step-up circuit is activated as soon as the rated voltage is applied to Vcc and the Ucc voltage is generated. The power section is isolated from the logics.

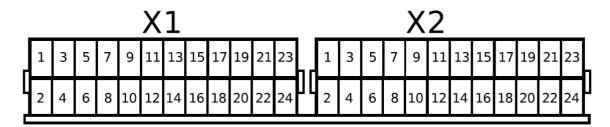


24.1. **Technical Specifications**

Output Stages and Intermediate Circuit			
Number of output stages	2		
Maximum continuous power (both output stages)	5	W	
Intermediate circuit power supply via integrated step-up circuit	150	V _{DC}	
Slew rate	30	V/ms	
Intermediate circuit capacity	66	uF	
Vcc_24V power supply rated voltage	24	V _{DC}	
PIEZO_Ucc power supply rated voltage	24 180	V_{DC}	
Module			
Maximum power consumption at 24V node power supply	200	mA	



24.2. **Pin Assignment**



X1					
No.	Dir	ld.	Id.	Dir	No.
2					1
4	In	Vcc_24v	Vcc_24V	ln	3
6		PIEZO_GND	PIEZO_GND		5
8					7
10					9
12					11
14					13
16		PIEZO_GND	PIEZO_GND		15
18					17
20	In	PIEZO_Ucc	PIEZO_Ucc	In	19
22					21
24		Shield	Shield		23

	X2					
No.	Dir	Id.	Id.	Dir	No.	
2	Out	POut 0	POut 0	Out	1	
4					3	
6		PIEZO_GND	PIEZO_GND		5	
8					7	
10					9	
12					11	
14	Out	POut 1	POut 1	Out	13	
16					15	
18		PIEZO_GND	PIEZO_GND		17	
20					19	
22					21	
24		Shield	Shield		23	



Remarks:

- The low-voltage sections is isolated from the rest of the COP module.
- Due to the heat sink, the COP-PIEZO requires two COP slots.

24.3. Low Voltage

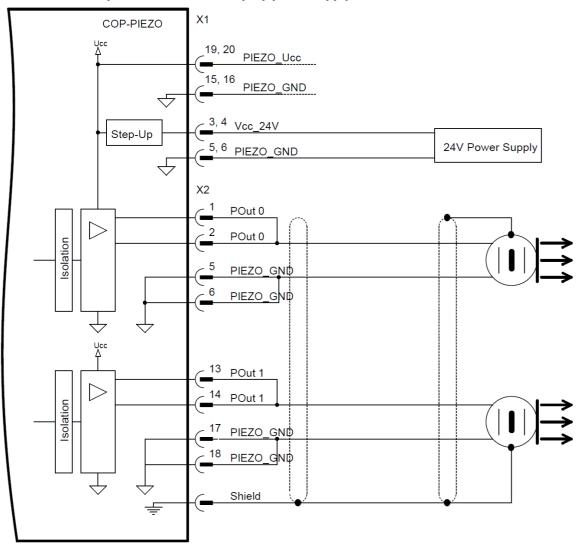


With the COP-PIEZO, low voltages occur. The Low-Voltage Directive has to be observed by the user. Contact with low voltages may result in death or severe bodily injury or property damage. The measures described in section 2.1.5 to protect against contact with electrical parts must be observed.



24.4. **Connection Examples**

Connection of two piezo elements and step-up power supply



24.5. **Available Options**

Item Number	Label	Option	Description
611346900	COP-PIEZO		2 x Piezo output stages, up to max 150V, 5W in total