30V300
1-channel OEM Amplifier

- ***1 channel analog amplifier***
- ***main supply voltage 10...30VDC***
- ***300mA output current permanent***
- ***CL version for all closed loop systems***
- ***casing design changeable between 19", screw slot, and stand alone version***

pic.1: *30V300*
(part no.:E-460-011)

applications:

- high speed and precision control of piezo actuating systems in industrial and laboratory environments
- automatic control of resolution, for high resolution nano-positioning applications

Design:
The line of OEM piezo amplifiers by ***piezosystem jena*** has now expanded with the OEM amplifier module 30V300. With the remarkable output current of 300mA this amplifier can be used especially for driving standard systems in very high frequency applications.
With a main supply voltage from 10V to 30V DC, the new 30V300 is designed for universal use. The casing is available as a screw slot version (see picture) or for in a 19"-rack mount casing. It is compact, robust and mountable in many different manners and most importantly it is highly reliable.
The amplifier is designed for use as a single unit in industrial settings.
The high performance of the 30V300 guarantees high speed positioning with the highest accuracy available.

Features:
The high output current of 300mA reliably allows for dynamic use of actuators with a higher capacitance. Rise time and frequency response can be precisely adjusted for each application.
Various configurations of the series 30V300 allow running actuators with or without positioning sensors. Actuator systems with integrated positioning sensors require the 30V300 CL version independent of the type of sensor that is used. The sensor parameters are automatically adjusted.
For actuators of the series nanoX® a special version of the 30V300 is available.
The new 30V300 allows you control of piezo actuators in two different ways: By using the potentiometer on the front panel, or by using the modulation input with an analog signal 0…10V.

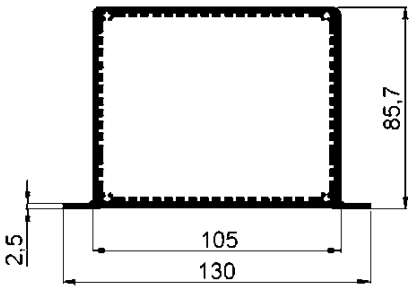
Installation:
Designed mainly for OEM use, the single channel amplifier can be use in laboratories as a stand alone version, as well as industrial applications
The 30V300 is housed in a compact and robust aluminum casing, which can easily withstand mechanical shocks. There are different variations of the casings available: with screw slots, with a plug-in option for 19" casings or as a table-top device for laboratory use.
The power supply must be between 10V…30VDC. The socket is located on the back panel. The necessary power supply pack comes with the 30V300 if the amplifier is ordered in a table-top and screw slot version.

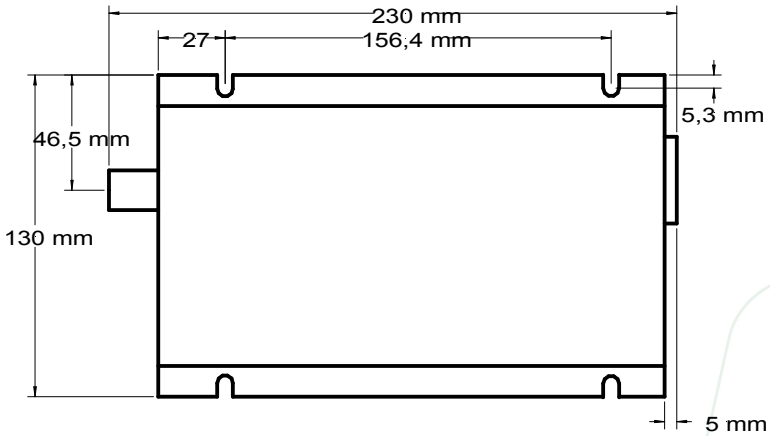
casing versions:

standard: screw slot casing (see picture)
19” rack mount version
stand alone version

casing size:

casing with screw slots [mm]





Technical data	E-460-011 E-468-011	E-460-012 E-468-012	E-460-013 E-468-013	E-460-111 E-468-111	E-460-112 E-468-112	E-460-113 E-468-113
	open loop			closed loop		
casing version	screw slot	19” rack mount	stand alone	screw slot	19” rack mount	stand alone
channel	1					
typ. signal noise	0.3mV					
with sensor controller	no			yes		
main supply	10...30VDC / max. 5A					
main supply connector	low voltage socket with 2,1mm-pin					
power	39W					
output voltage	-20...+130V (+130V...-20V for nanoX™ actuators)					
permanent output current	300mA					
connector actuator	LEMO; ODU					
connector sensor	ODU 4pol					
type of sensor controller	no			SG, CAP		
modulation input	0...+10V					
input resistance	1KΩ					
monitor output	-2V…13V			0...+10V		
output resistance (monitor)	25kΩ					
MOD / MON connector	BNC					
DC voltage level	-20...+130V					
specials	short circuit prove					
display	no					
size (L x W x H)	235.5 x 85.7 x 130mm	ca. 16TE x 3HE	235.5 x 85.7 x 105mm	235.5 x 85.7 x 130mm	ca. 16TE x 3HE	230 x 85.7 x 105mm
weight	approx. 1.6kg					