

## 12V40 C and 12V40 CSG series – OEM piezo controller

### Compact analog piezo controller

#### Concept:

The 12V40 C and 12V40 CSG piezo controller series from **piezosystem jena** are especially made for piezoelectric actuators used in nanopositioning tasks for industrial applications.

The CSG version of the controller series comes with a sensor controller module. This version is especially made for use in combination with piezoelectric actuators equipped with an integrated closed loop feedback sensor.

The piezo controller offers the user the choice to control a piezoelectric element manually or via an analog modulation input with a signal of 0 to 10 VDC with a nearly unlimited step resolution. Due to their design and small dimensions, the piezo controllers from the 12V40 C and 12V40 CSG series are well suited for nanopositioning tasks for industrial applications as well as for simpler laboratory setups made for scientific applications.

#### Specials:

The piezo controllers amplifier 12V40 C and 12V40 CSG are available as a screw slot version to support stand-alone application and as a 19"-Rack mount version for system integration.

The DC offset level used to control the piezoelectric actuator is adjustable with a  $\frac{3}{4}$  turn potentiometer on the front side and by an analog modulation input signal of 0 to 10 VDC.



Image: 12V40 CSG

#### Product Highlights:

- 1-channel OEM piezo controller
- sensor feedback controller inside
- compact dimensions
- 19" rack mount version
- 40 mA permanent output current
- 12 VDC main voltage
- modulation input
- monitor output

#### Application:

- Pick & place automation
- OEM integration
- Valve and gripper technology
- Fiber alignment

## 12V40 C and 12V40 CSG series – OEM piezo controller

OEM piezo controller		unit	12V40 C and 12V40 CSG (with sensor feedback controller)	
description			12V40 C	12V40 CSG
part number			E-301-20	E-301-21
casing style		-	19"-rack mount module; 3HE; 6TE x 160mm	
number of channels		-	1	1
display		-	no	no
main supply voltage		V	12VDC	
output voltage signal		V	-10...150V	
output current (permanent)		mA	40mA	
voltage noise		mV	< 0.3mV <sub>RMS</sub> @500Hz	
piezo connector	voltage	-	LEMO 0S.302	LEMO 0S.302
	sensor	-	-	LEMO 0S.304
sensor controller		-	none	yes
PC interface		-	none	
DC Offset		-	¼ turn potentiometer front panel	
modulation input		V	0...+10V SMB connector	
modulation input impedance		Ohm	10kOhm	
monitor output impedance (typ.)		Ohm	100kOhm	
monitor output		V	-1...+15V SMB connector	0...+10V SMB connector
connector main supply voltage		-	via 64pin connector	
working temperature range		-	5°C to 35°C (41F to 95F)	
specials		-	power on delay, overdrive protection	
dimensions (lxwxh)		mm	19"-rack mount module; 3HE; 6TE x 160mm	

Specifications subject to change without notice!