

series ENV 40 compact

voltage amplifier 40mA

- ◆ **amplifier for low voltage piezo elements**
- ◆ **multi channel system**
- ◆ **excellent cost effectiveness**
- ◆ **closed loop system integrated (option)**

applications:

- automation systems
- operation with low dynamics
- precision adjustment in labs and industry
- driving piezoelements
- space-saving format
- OEM-applications



pic.1: module ENV 40 CSG

The latest development **ENV 40 C** of the ENV series combines the excellent features of the ENV system with the compactness of the new 12V40 modules. The compact **ENV** series is very suitable for automated positioning and scanning applications in labs and industry where the direct display of the output values is not needed. All the drive signals can be tapped from the front plate as well as from the rear wiring. The **ENV 40 C** module is available with integrated controller for the use of different position measurement systems on request. A PID controller is used for the position control. A very compact attachable printed circuit board processes the analog signals of the sensor. This additional printed circuit board is also available separately, as well as for systems without measurement systems and systems with integrated capacitive or strain gauge measurement systems.

technical data	ENV 40 C E-104-00	ENV 40 CSG E-104-10	ENV 40 CCP* E-104-30*
type of sensor controller	-	strain gauge	capacitive
module width	6 TE	6 TE	6 TE
output voltage range	-10 to +150 V	-10 to +150 V	-10 to +150 V
output current (permanent)	40 mA	40 mA	40 mA
voltage noise (absolute)	<3 mV _{RMS} @500 Hz	<3 mV _{RMS} @500 Hz	<3 mV _{RMS} @500 Hz
modulation input**	0 to +10 V, SMB connector	0 to +10 V, SMB connector	0 to +10 V, SMB connector
input resistance	10 kΩ	10 kΩ	10 kΩ
DC offset	3 / 4 turn potentiometer	3 / 4 turn potentiometer	3 / 4 turn potentiometer
display	without display	without display	without display
output connector	LEMO 0S.250	LEMO 0S.250	LEMO 0S.250
sensor output	-	LEMO 0S.304	-
monitor output***	-1 to +15 V	0 to +10 V	0 to +10 V
	(output resistance 100 kΩ)	(output resistance 100 kΩ)	(output resistance 100 kΩ)
	SMB connector	SMB connector	SMB connector

* The ENV 40 CCP is only usable and has to be ordered in combination with the sensor module ECP2 (part no.: E-330-010, width: 6TE).

** SMB plug available with part no. Z-006-70 (please see chapter "accessories")

*** In open loop systems the output voltage is displayed in a 10:1 (-1 ... 15V) ratio. In closed loop systems the edited sensor signal is available. The monitor output voltage is 0 ... 10V for 100% motion in closed loop mode.