

12V40 piezo-amplifier

- **closed casing**
- **12Volt power supply**
- **excellent cost effectiveness**
- **small dimensions**

application:

- driving piezoelements
- space-saving format
- OEM-applications

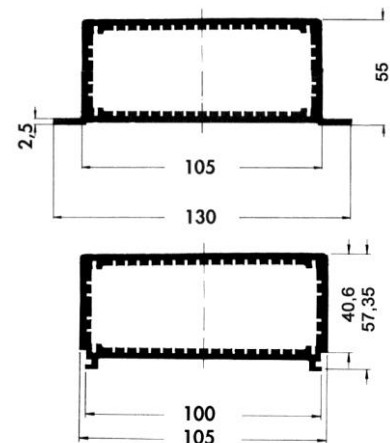
The voltage amplifier **12V40** is well suited for low voltage piezo elements. Two different types of casing are available. The amplifiers requires only 12V DC for supply. The amplifier can be controlled via MOD input (front- or backside). The output voltage can be supervised on the monitor output. Special circuits are integrated to protect the piezo element from voltage peaks and too high voltages. Due to very low voltage noise of only 0.3mV_{PP} this amplifier is well suited for sub-nm positioning tasks. All sockets are also available on the backside so this amplifiers can be integrated as an OEM-product easily.

technical data:

output power	6W
output voltage	-10 ... +150V
output current (continuous)	40mA (±10%)
voltage noise	0.3mV _{RMS} @500Hz
modulation voltage (protected)	0 ... 10V SMB / 0 ... 10V (back panel)
input resistance	10 kΩ
DC-offset	3/4 turn potentiometer
output connector	LEMO 0S.302
monitor output	-1 ... 15V SMB (front panel) / 0 ... 10V (back panel)
inner resistance	100kOhm SMB (front panel)/10kOhm (back panel)
dimensions	181mm x 130mm x 45mm (screw slot version) 181mm x 105mm x 45mm (plug-in version)
specials	turn on delay overdrive protection (UDL/OVL) also available with measuring system and closed-loop



Abb. 1: amplifier in screw-slot casing



part-nr. E-440-011 [12V] (screw slot)
part-nr. E-440-012 [12V] (plug-in)
part-nr. E-440-031 [24V] (screw slot)
part-nr. E-440-032 [24V] (plug-in)

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