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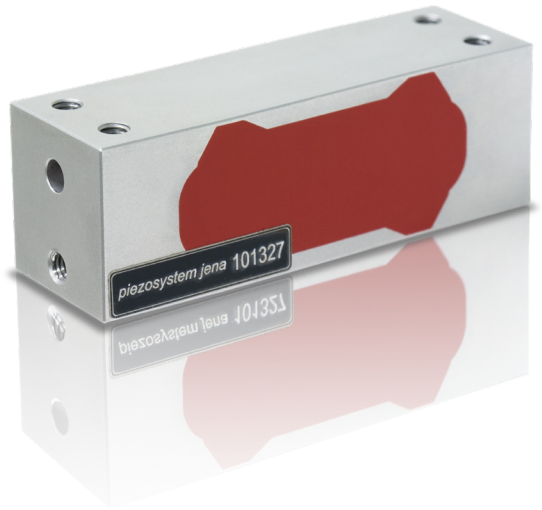
PZ 200 OEM

Compact 1-axis Translation Stage

- ***Motion range up to 400 µm***
- ***Accurate parallel motion due to flexure guidance system***
- ***High resonant frequency up to 625 Hz***
- ***Easily combined with other piezo electrical systems***



Due to solid state flexure and parallelogram construction, the PZ 200 nano-positioning stage can travel without any mechanical play in the X or Z axes, and provide a much higher resolution than is possible with mechanical or electromechanical systems.

This PZ piezo stage can be easily combined with XY elements of the XYZ series or with tilting piezoelectric modules of the PSH series to allow positioning with all degrees of freedom. Additionally this Z axis nano-positioning stage can run dynamically.

The PZ 200 can optionally be equipped with a measurement system (strain gauge or capacitive sensors) that compensates for hysteresis.

Variants:

- PZ 200 OEM
- PZ 200 SG OEM

Recommended Controller:

NV200/D Net

E-730-820

Applications

- Optics and fiber positioning
- Printing technology
- Scanning systems
- Micro-manipulation
- AFM technology

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PZ 200 OEM

Technical Data

		Unit	PZ 200 OEM	PZ 200 SG OEM
Part #		-	S-626-00	S-626-01
Axes		-	Z	
Motion	Open-loop (±10%)*	µm	200	
	Closed-loop (± 0.2%)*		-	160
Capacitance (±20%)**		µF	2.5	
Resolution	Open-loop***	nm	0.4	
	Closed-loop***		-	4
Feedback sensor		-	-	strain gauge
Typ. repeatability		nm	-	±4
Typ. non-linearity		%	-	0.012
Resonant frequency (unloaded)		Hz	625	
Max. push/pull forces		N	60/6	
Stiffness		N/µm	0.6	
Voltage range		V	-20...130V	
Connector (for additional connector configuration please see table below)****		-	LEMO 0S.302	LEMO 0S.302/ LEMO 0S.304
Cable length		m	1	1.2
Operating temperature		°C	-20°C ... + 80°C	
Material		-	stainless steel	
Dimensions (l/w/h)		mm	50x16x17	50x16x21
Weight		g	140	165

Product name	Description	Specials	Part #
PZ 200 SG OEM Extern	Version with sensor pre-amplifier for the use with „CLE" amplifier units and with the additional functionalities: Interchangeability, ASI	Connector Sensor: ODU 4pin	S-626-01E

Rights reserved to change specifications as progress occurs without notice!

* typical value measured with NV 40/3 amplifier (closed loop: NV 40/3 CLE amplifier)
** typical value for small electrical field strength
*** The resolution is only limited by the noise of the power amplifier and metrology.
**** Additional connector configurations (Examples)
***** For further product variations and recommended configurations, please contact our sales representatives.

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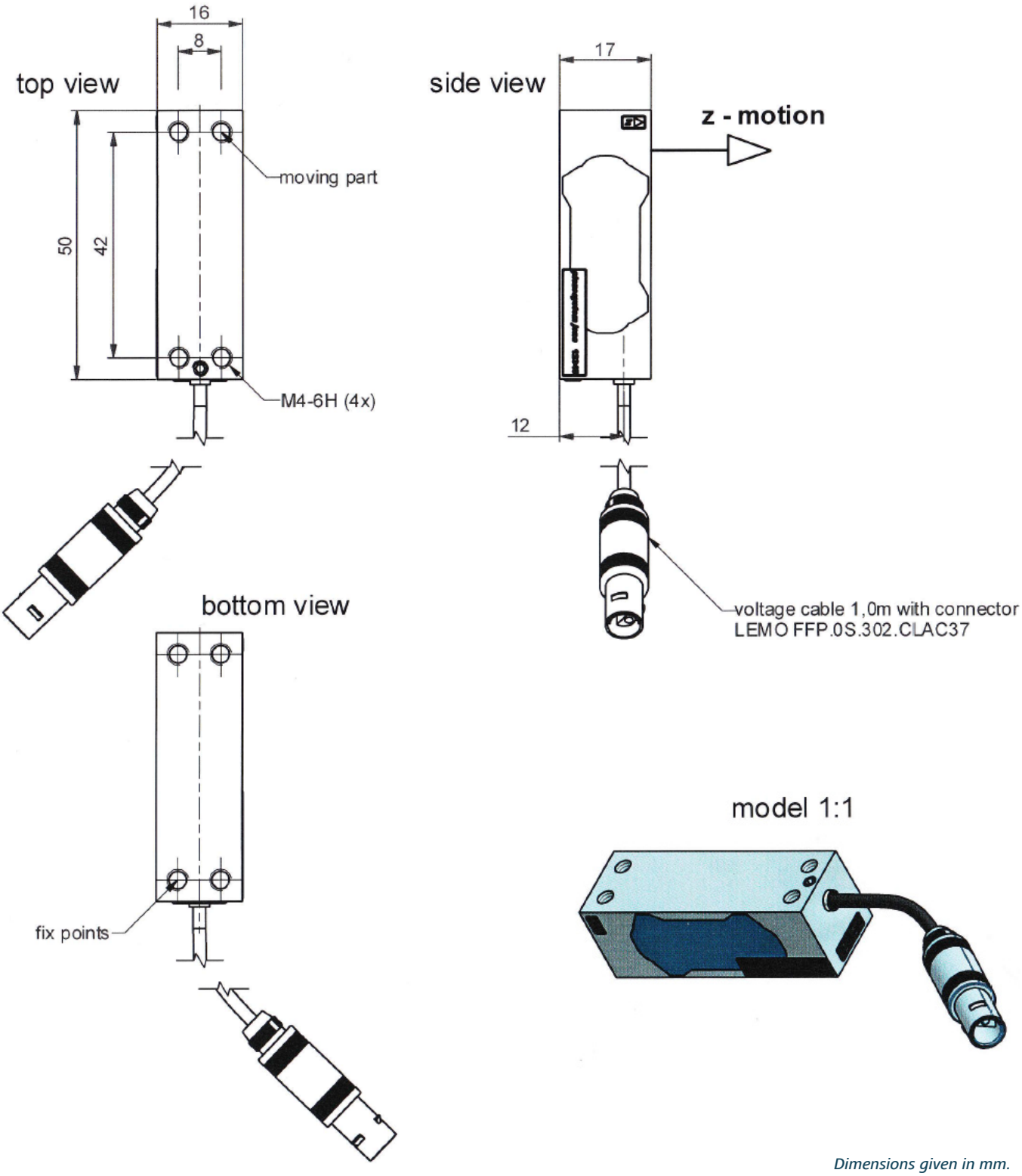
PZ 200 OEM

Part Drawing



Dimensions given in mm.

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piezosystem jena GmbH
Tel: +49 (3641) 66880
E-Mail: info@piezojena.com

piezosystem jena, Inc.
Tel: +1-508-634-6688
E-Mail: contact@psj-usa.com

www.piezosystem.com

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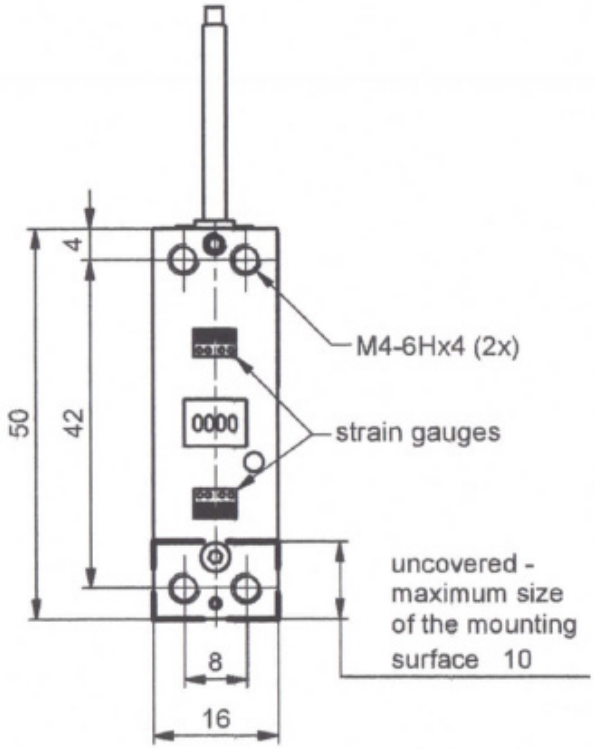
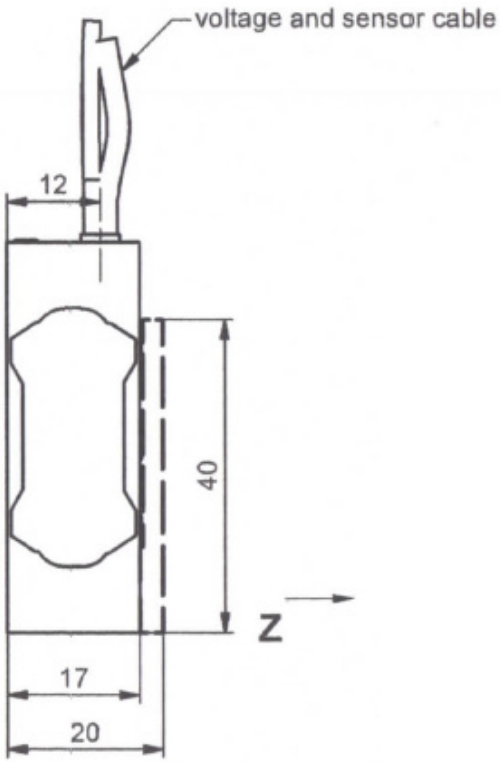
PZ 200 SG OEM

Part Drawing

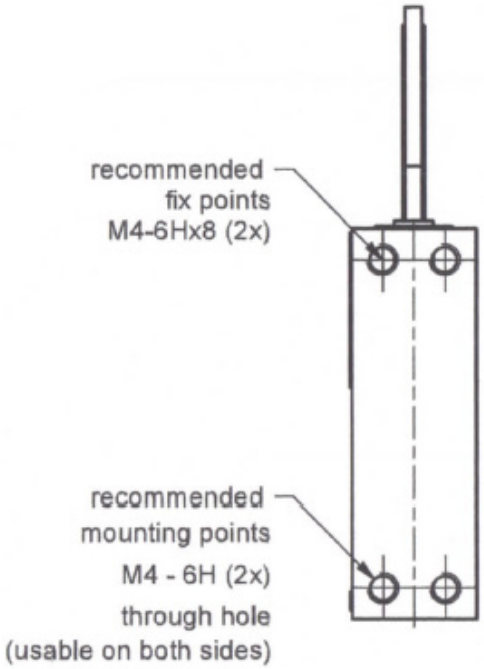
top view



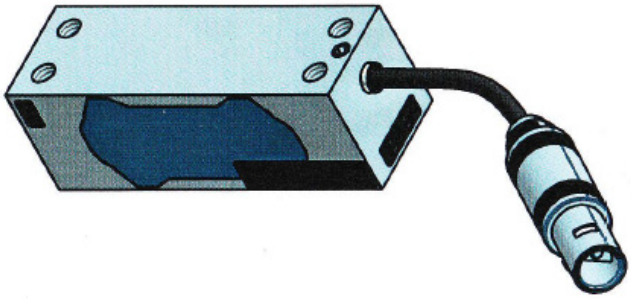
side view



bottom view



model 1:1



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piezosystem jena GmbH
Tel: +49 (3641) 66880
E-Mail: info@piezojena.com

piezosystem jena, Inc.
Tel: +1-508-634-6688
E-Mail: contact@psj-usa.com

www.piezosystem.com