FDPLS-V | FDPL2S-V | FDPL231-V

Linear Motion Potentiometers with Analog Output

- **Measurement ranges 50 mm to 950 mm**
- **Output 0 … 10 V proportional to the stem position**
- **High linearity**

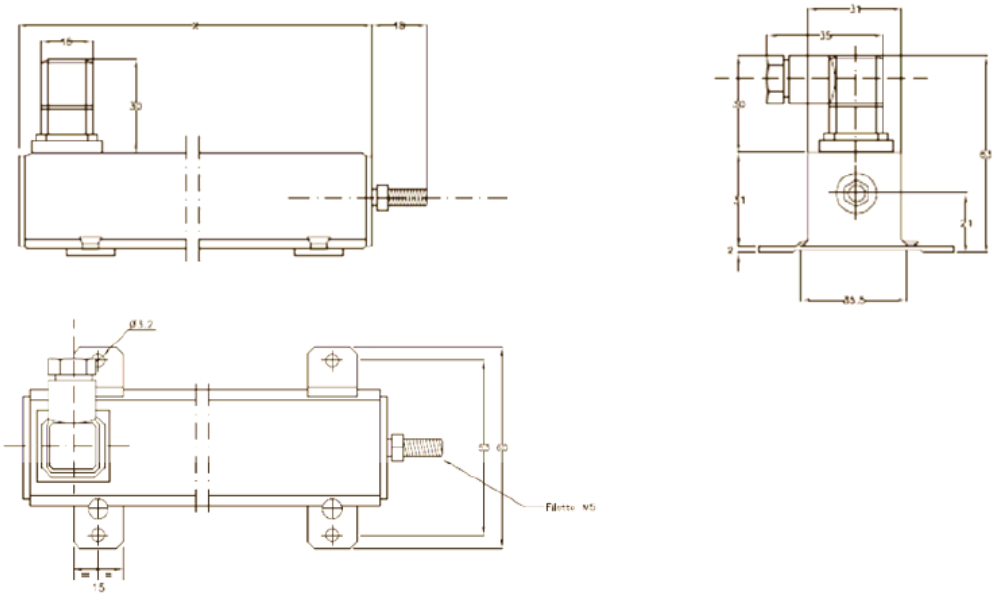
More Features:

- Conductive plastic resistive element
- 20 million operations life
- Infinite resolution
- Moving speed up to 1 m/s
- Strong aluminium case
- Easy clamping by movable feet
- Electrical connections by orientable connector
- IP65 protection degree
- Available fittings (PLS-V series only): ball joint, out-of-alignment joint, feeler pin

Connection Diagram

Pin 1	+ output 0 … 10 V
Pin 2	- output 0 … 10 V
Pin 3	0 V
Pin 4	Supply voltage +18 … 30 VDC

Series FDPLS-V - Standard Dimension



Stroke, nominal	50 mm	100 mm	150 mm	200 mm	250 mm	300 mm	400 mm	500 mm	750 mm	950 mm
X	190 mm	240 mm	290 mm	340 mm	390 mm	440 mm	540 mm	640 mm	890 mm	1090 mm

Dimensions in „mm“, approx. values. These drawings are for information only and not intended for construction purpose.
Please contact us for detailed drawings.

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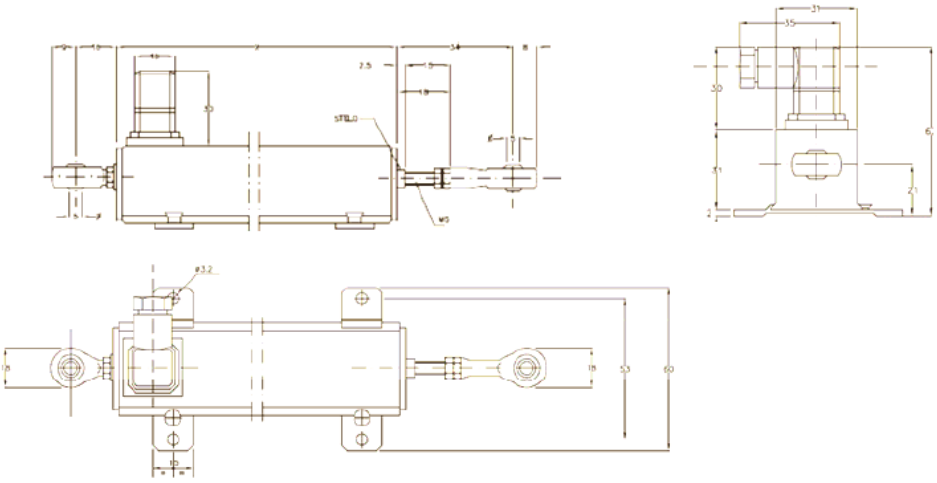
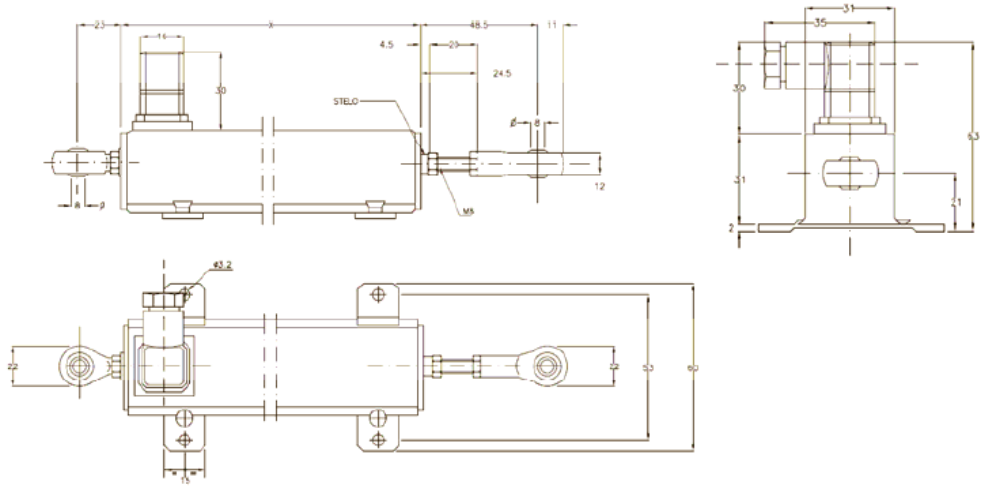
Series FDPL2S-V - Standard Dimension



Stroke, nominal	50 mm	100 mm	150 mm	200 mm	250 mm	300 mm	400 mm	500 mm	750 mm	950 mm
X	190 mm	240 mm	290 mm	340 mm	390 mm	440 mm	540 mm	640 mm	890 mm	1090 mm

Series FDPL231-V - Standard Dimension



Dimensions in „mm“, approx. values.

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Stroke, nominal	50 mm	100 mm	150 mm	200 mm	250 mm	300 mm	400 mm	500 mm	750 mm
X	247 mm	297 mm	347 mm	397 mm	447 mm	497 mm	597 mm	697 mm	945 mm

FDAD0/10 | FDAD0/5

Analog Output Buffer Circuit for Linear Potentiometers

The buffer circuit can be coupled to any potentiometer with impedance value 500 Ohm. The potentiometer signal is properly operated through the FDAD buffer and made available for the capture device.

- Supply voltage 18 ... 30 VDC
- Voltage output proportional to the position: FDAD0/10V: 0 ... 10 V; FDAD0/5V: 0 ... 5 V
- Gain error ±0.05 % of the measured value
- Protection against polarity inversion for the supply
- Protection against short circuits on the potentiometer supply
- Thermal drift: 0.0043 % of the measured value/°C
- Operating temperature: -20 ...+70 °C
- Aluminium case dimensions (HxWxL): 31 x 31 x 60 mm
- IP54 protection degree

Our policy is to improve specification of our products continuously, so technical and production details can be changed without any notice.

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