

DPS-1

Dancer Position Sensor

Say goodbye to complicated and time consuming dancer/rider arm potentiometers!



Montalvo DPS-1 Dancer Position Sensor

The Montalvo DPS-1 non-contact dancer/rider arm position sensor delivers a linear 0-5v signal proportional to the dancer/rider arm angular position. A rugged, wear-free micro-electromechanical system that precisely measures sensor movement.

Features

- ▶ Non Contact
 - No wear parts
 - Extremely long life
- ▶ Easy to Install
 - Simply attach to any dancer or rider arm
 - Flexible mounting
- ▶ Delivers the advantages of the latest in sensor technology
 - Fast response time
 - High resolution / sensitivity
 - Highly accurate
 - Short circuit proof

New Installations:

- Save installation and setup time
- Two hole mounting - faster installation than ANY other option
- Easy, no-tools zero-point calibration
- Durable, maintenance free operation
- Direct mounted - **No gearing or coupling required!**

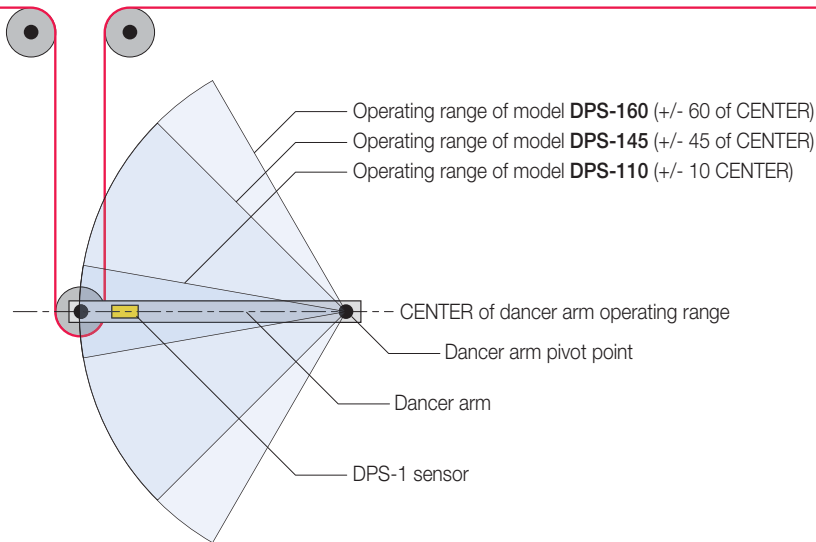
Upgrade Installation:

- Replacing a broken or worn out dancer/rider arm position sensor can prove expensive both in terms of production downtime and parts. This sensor is a single stand-alone unit and installs in minutes - **Replace an existing potentiometer with a maintenance free sensor!**



Montalvo DPS-1 mounted to a dancer arm running a foil that requires quick and accurate feedback.

Operating Range



Specifications

Model	DPS-110	DPS-145	DPS160
Voltage output	0.1 to 4.9 V	0.1 to 4.9 V	0.1 to 4.9 V
Measuring range	-10 to +10°	-45 to +45°	-60 to +60°
Temperature drift	< +/- 0.05 % K	< +/- 0.025%K	< +/- 0.025%K
Temperature coefficient	0.01° / K	0.03°/K	0.03°/K
Resolution	< 0.04°	< 0.1°	< 0.14°
Zero-point calibration	+/- 5°	+/- 15°	+/- 15°
Absolute accuracy	+/- 0.3°	+/- 0.5°	+/- 0.5°

Model	DPS-110 / DPS-145 / DPS-160
Operating voltage	10 to 30 VDC
No-load current I/O	< 20 mA
Rated insulation voltage	< 0.5 kV
Voltage output	0.1 to 4.9 V
Output function	4 wire analog
Repeatability (cold)	< 0.2 %
Repeatability (after 0.5 h operation)	< 0.1 %
Output recovery time	< 12 ms
Response time	0.05 to 0.1 s
Dimensions - mm	60 x 30 x 20
Housing material	PBT-GF20-VO
Connector	M12
Vibration resistance	55 Hz
Ambient temperature	-30 to +70° C
Extended temperature	-40 to +70° C
Wire brake/reverse polarity protection	Yes
Degree of protection	IP68

