

DPS-1Dancer 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 microelectromechanical 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

Save installation and setup time

Two hole mounting - faster installation than ANY other option

Easy, no-tools zero-point calibration

Durable, maintenance free operation

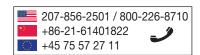
Direct mounted - No gearing or coupling required!

Upgrade Installation:

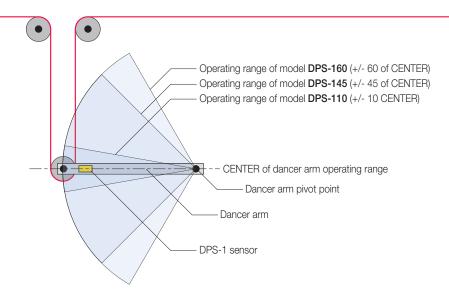
Replacing a broken or worn out dancer/rider arm position sensor can prove expensive both in terms of production downtime and parts. This sensor is a single stand-alone unit and installs in minutes - Replace an existing potentiometer with a maintenance free sensor!



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



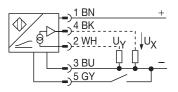
Operating Range

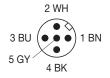


Specifications

Model	DPS-110	DPS-145	DPS160
Votage 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
Votage 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	n Yes
Degree of protection	IP68





The Montalvo Corporation

