

Knows the angles!

I Controlflex® I



Design for Advantage

Controlflex® is the ideal protector for sensitive encoders. Very compact and electrically insulating it works with constant angular velocity and handles all bore combinations – precisely and untiringly.

I Controlflex® I

Controlflex® was designed especially for the requirements of shaft encoders. The patented middle element transmits torque at constant angular velocity and accommodates all kinds of misalignment with very low restoring forces. This is essential for encoders due to their small and sensitive bearings. Controlflex® is easy to install thanks to clamp hubs. Controlflex builds short and dampens vibrations.



Standard

Patented Delrin®* middle element

The middle element is molded from Delrin® yielding vibration dampening and electrical insulation.

Compact design

Misalignment is compensated in-plane in a remarkably small envelope.

Designed especially for encoders

Controlflex® offers very low restoring forces together with large misalignment capacity.

Modular construction

The backlash-free three-piece design ensures all bore combination from stock.

Balanced design

All clamp hubs are balanced to make them suitable for high rpm applications without side loads.

Anodized hubs

The aluminum hubs are anodized and provide excellent protection against corrosion.

Standard

The optimal choice for all standard encoders and tachos. The Standard series offers a balanced design of precision with very low restoring forces and it exactly meets the requirements of today's encoders.

Very low restoring forces

between 3 N and 4.4 N for 0.2 mm radial misalignment compensation

Maximum speed

Up to 25,000 rpm

Maximum radial shaft misalignment

Up to 1 mm

Maximum axial shaft misalignment

Up to 0.7 mm

Maximum angular shaft misalignment

Up to 1.5°

*Delrin is a registered trademark of DuPont

Impuls Plus

Industry

Compact

Impuls Plus

The Controlflex® series for encoders with maximum accuracy. It is predestined for encoders using a graduated disk with increased line counts or with fine measuring signals.

Very low restoring forces

between 6 N and 8.8 N for 0.2 mm radial misalignment compensation

Maximum speed

Up to 25,000 rpm

Maximum radial shaft misalignment

Up to 1 mm

Maximum axial shaft misalignment

Up to 0.7 mm

Maximum angular shaft misalignment

Up to 1°

Compact

The very short design, especially designed for encoder applications where the coupling is integrated into a very tight axial space. As an example where the coupling is mounted in a fixed housing.

Very low restoring forces

between 3.4 N and 4.4 N for 0.2 mm radial misalignment compensation

Maximum speed

Up to 22,000 rpm

Maximum radial shaft misalignment

Up to 1 mm

Maximum axial shaft misalignment

Up to 0.7 mm

Maximum angular shaft misalignment

Up to 1.5°

Industry

The Controlflex® series, designed for robust industrial encoders with larger shaft diameters up to 40 mm.

Very low restoring forces

between 6.8 N and 10 N for 0.2 mm radial misalignment compensation

Maximum speed

Up to 10,000 rpm

Maximum radial shaft misalignment

Up to 2 mm

Maximum axial shaft misalignment

Up to 1.5 mm

Maximum angular shaft misalignment

Up to 1.5°

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Global Partners

For over 40 years our clients, dealers and suppliers around the world have placed their trust in us, our products and our services.

At SCHMIDT-KUPPLUNG GmbH we place great importance in continuing this tradition.

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