Rotary Position Technology
Incremental Encoders

Large Bore Type RI-43 (Hollow Shaft)

Mating Shaft Requirements:

| Type of Flange	Axial End Play	Radial Runout	Angular Offset
S5 (anti-rotational spring short)	max. ±1 mm	max. ±0.3 mm	max. ±2°
S4 (anti-rotational spring long)	max. ±1 mm	max. ±0.3 mm	max. ±2°
S8 (tether arm long)	max. ±0.5 mm	max. ±0.3 mm	max. ±2°
E2 (C-face tether)	max. ±0.5 mm	max. ±0.3 mm	max. ±2°

Mounting:

Mounting using the spring element - short:

When mounting the encoder, ensure that dimension **L** is larger than the maximum axial play of the drive in the direction of the arrow.

1	Flange
2	Spring element - short
3	Cylindrical pin
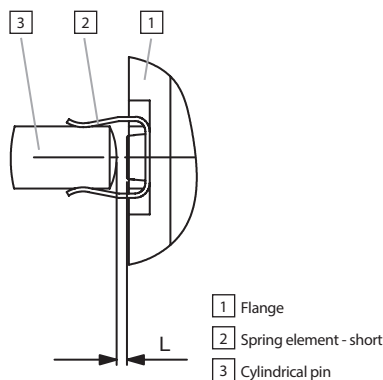
Mounting using the spring element - long:

Cylindrical pin fed through the bore of the spring.

1	Flange
2	Spring element - short
3	Cylindrical pin
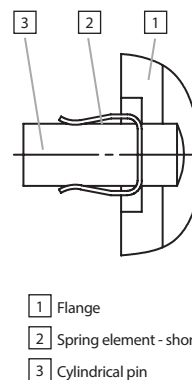
Large Bore Type RI-43 (Hollow Shaft) Accessories

Isolation Insert

The RI-43 encoder is used for AC vector motor and general industrial applications. For AC vector motor applications, the encoder should be electrically isolated from the motor chassis to minimize encoder bearing currents and ground noise. An isolation insert for the hollow shaft is provided with the encoder by specifying N42 in the "special insert option" decode. **When ordering isolation inserts separately, choose option 38 with a bore diameter of 38 mm.**

For general industrial applications, isolation is not required and the decode for "special insert options" can be left blank.

Isolation insert for hollow shaft Ø 42 mm:
External diameter 42 mm
Internal diameter 38 H7 in accordance with ISO 286-2
Order Number: RSA-38

Part Number:	Inner Dimensions
RSA-A3	12.7 mm (1/2")
RSA-A4	15.875 mm (5/8")
RSA-12	12 mm
RSA-14	14 mm
RSA-15	15 mm
RSA-16	16 mm
RSA-18	18 mm
RSA-A5	19.05 mm (3/4")
RSA-20	20 mm
RSA-25	25 mm
RSA-A6	25.4 mm (1")
RSA-A7	28.58 mm (1-1/8")
RSA-30	30 mm
RSA-A8	31.75 mm (1-1/4")
RSA-32	32 mm