

# Rodless drive DGCI with displacement encoder

**FESTO**



**DGC: The benchmark for precision guidance and loadability. DGC with displacement encoder DGCI: for pneumatic positioning and Smart Soft Stop. For maximum economic efficiency.**

#### **Price follows function**

The DGCI: a highly functional drive with huge price savings of around 30% in comparison to comparable solutions. In addition reduced process costs are achieved thanks to the multiple use of identical mounting attachments including accessory kits.

#### **More flexible**

Integrated into the system, the faster Smart Soft Stop with end position controller SPC11 or CPX-CMPX ensures that the DGCI has shorter cycle times and reduces unwanted vibrations in the system. Combined with the SPC200 or CPX-CMAX axis con-

troller, it enables economical positioning with substantially easier handling.

#### **Fast assembly**

Accessible from one side: Precision end position adjustment, mounting and supply ports. Colour labelled push-in fittings ensure error-free assembly.

#### **Precise**

Thanks to mounting interfaces with centring rings and a absolute displacement encoder with high repetition accuracy.



Precision guide

Absolute displacement encoder

Ready-to-install solution

119.3.PSI →

Product Short Information

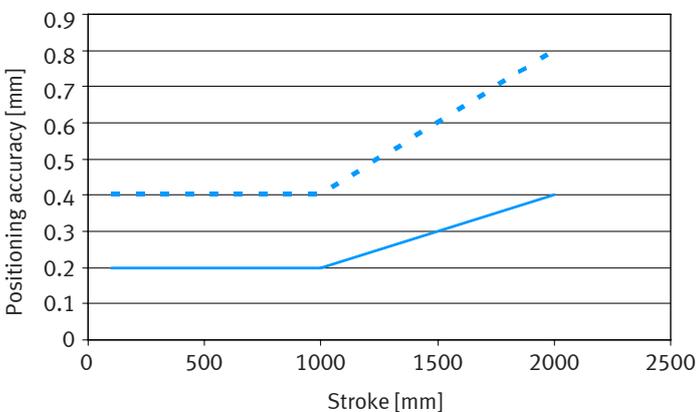
# Rodless drive DGCI with displacement encoder

## General technical data

- Diameter: 18, 25, 32, 40, 63
- Strokes: 100, 160, 225, 300, 360, 450, 500, 600, 750, 850, 1000, 1250, 1500, 1750, 2000
- Position sensing using a digital displacement encoder, contactless method of absolute measurement
- Protection class IP67
- Recirculating ball bearing guide
- SPC11 and CPX-CMPX for end position cushioning
- SPC200 and CPX-CMAX for pneumatic positioning
- Basic version: without cushioning, with recirculating ball bearing guide, supply port at both ends on the front with mounted fittings
- Central lubrication in preparation

Interface - Pneumatic	
Pneumatic port at both ends	
Pneumatic port at the right hand side (permissible up to max. stroke 600 mm)	

Characteristic values of the displacement encoder	
Resolution	<0.01 mm
Independent linearity	±0.02 FS (min. ±50 µm)
Protection class	IP 67
Power supply	24 V DC ±25 %
Max. current consumption	Typical 100 mA



— Horizontal  
- - - Vertical

Characteristic values – Immission/Emission	
Ambient temperature	-10 ... +60 °C
Operating medium	Filtered compressed air, unlubricated, filter 5µm**
Operating pressure	2 ... 8 bar
Shock resistance to DIN/IEC 68 part 2-27	Half sine 15 g, 11 ms
Vibration resistance to DIN/IEC 68, part 2-6	At 10 - 58 Hz: 0.15 mm At 58-150 Hz: 2 G Judder: max. ±200 µm
CE marking	as per EU EMC directive

System properties	
Maximum load, horizontal installation	15 ... 180 kg*
Maximum load, vertical installation	5 ... 60 kg*
Minimum permissible positioning stroke	3 % of stroke, max. 20 mm
Stroke reserve	15 ... 35 mm*
Min. travel speed	<50 mm/s
Max. traversing speed	5 m/s **

\* dependent on the drive

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