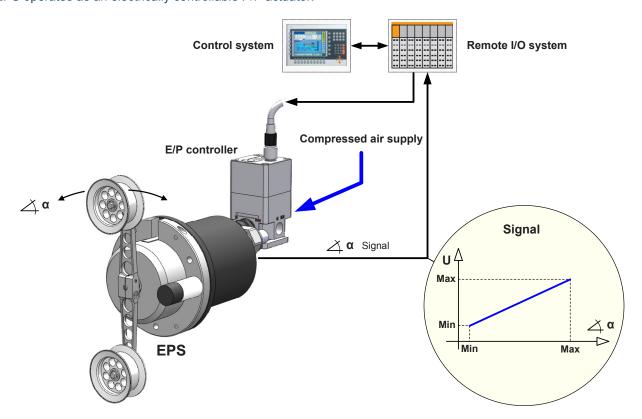


Description

EPS is a control dancer and used for tension control on winding of endless material. It is an active dancer system. The required tension is precisely adjustable in a wide range. EPS operates as an electrically controllable P/F actuator.



Applications

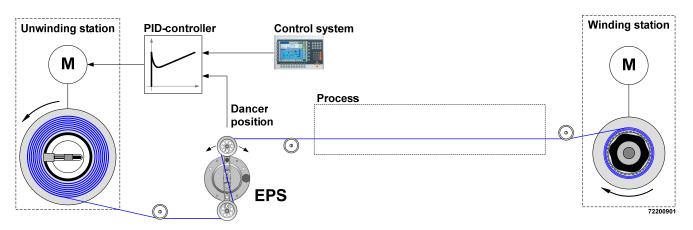
- tension controlled unwinding
- actuating element for tension control
- material accumulator / dancer system

Special features

- wide adjustable tension range
- follows high dynamic speed variations very precisely
- excellent start / stop behavior
- compact design for low required space
- long-living, free from wear and maintenance

TechInfo

Functionality using the example of a typical unwinding process: A motor-driven chuck supports the material roll at the unwinder. The following process needs material feeding with process-specific dynamic and well-defined tension..

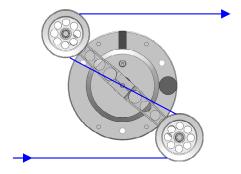


EPS serves as link between unwinder and process.

- The material is guided S-shaped over the dancer pulleys.
- A torque, which acts on the dancer, is generated electro-pneumatically.
- Tension Fz is proportional to the upcoming torque.
- The actual rotation angle of the dancer is output as electric signal.
- The dancer is in position control.

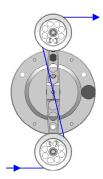
Material accumulator

EPS functions as an accumulator additionally. It can dispense or receive the material depending on the dancer position.

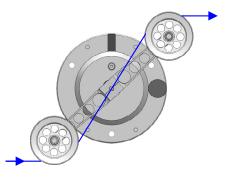


Deflection left: ready to dispense

max. content: approx. 320mm



Center position: ready to dispense / receive

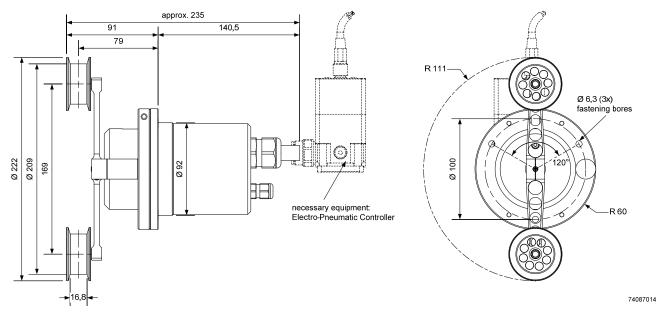


Deflection right: ready to receive

EPS Dancer Electro-pneumatic actuator

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Scale drawing



All dimensions in mm

Order code

				EPS	20-250
Туре					
Tension range	20-250 20-400	cN cN			-

Electrical connections

M12 male flange plug, 4-poles, A-coded		Connection cable, 3m, open ends, shielded		
Pin assignment		Cable colors		
	1: +5V DC 2: Output signal 3: Gnd 4: n.c.	1: brown 2: white 3: blue 4: black		
View on flange plug		and additionally shield		

Scope of supply

- Dancer EPS
- Connection cable, 3m long, open ends

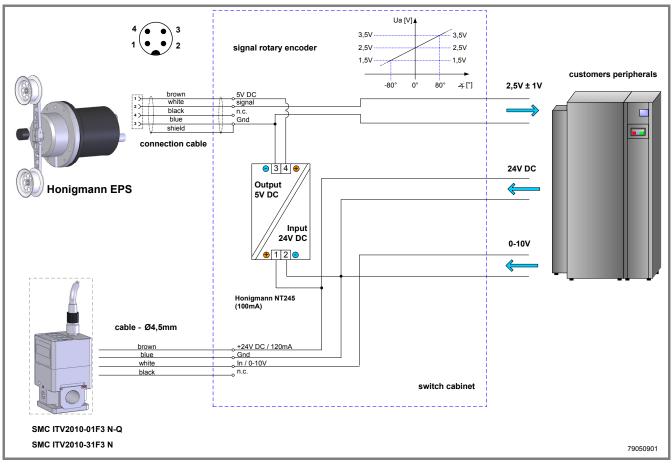
EPS Dancer Electro-pneumatic actuator



Technical data

available tension ranges	cN	20 to 250; 20 to 400	
Output	V	2,5 ± 1, max. 20mA	
Supply voltage	V DC	5 ± 0,25	
Current consumption	mA	max. 25	
Compressed air supply		via E/P controller Compressed air must be dried, free of grease + oil.	
- Input pressure	mbar	50 to 1000	
- Volume flow	l/min	4 to 50	
- Connection		3/8-18 NPSM	
Nominal temperature range	°C	0 to 50	
Operational temperature range	°C	-10 to70	
Storage temperature range	°C	-30 to75	
Dimension		see scale drawing	
Weight	g	approx. 4150	

Wiring example



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