

Electronic end-position controller Soft Stop SPC11



Highlights

- · Shorter cycle times-
- Minimised vibrations
- 2 freely selectable intermediate positions

Tuning for pneumatic drives: shorten travel times by up to 30% and drastically reduce vibrations when moving into the end position.

Giving pneumatic drives a clear run

The Soft Stop system lets you reduce the travel time from point A to point B by up to 30%; it also improves end position cushioning characteristics for linear and semi-rotary drives, thus increasing the service life of the drives. New: Travel to fixed stops without shock absorbers.

Extremely economical

Shorter travel times, fewer vibrations, increased system service life for optimum production and higher productivity, easy and fast installation and commissioning without complex custom designs – and all that at an attractive price.

Extremely flexible

Up to two freely selectable intermediate positions without a fixed stop for ejection or wait positions. Replaces custom designs and more expensive electromechanical drive solutions.

Extremely easy to install

Thanks to Festo plug & work, installation is problem-free and commissioning via teach-in is quick and easy, even when retrofitting existing shock absorber solutions. Making a few modifications on the PLC is enough.

Extremely reliable and safe

Minimises maintenance time and effort thanks to a lower vibration load.

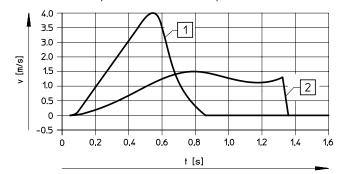


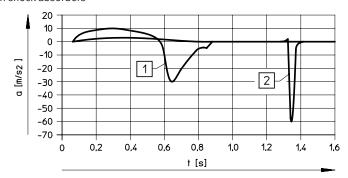
Key features

Moving mass	2300 kg (horizontal)				
	2100 kg (vertical)				
Control	Autonomous controller with closed-loop control				
	PLC interface	Digital I/O			
		AS-Interface			
		All system parameters can be set and changed externally; a logic 1 signal at the remote			
		input locks all buttons on the end-position controller SPC11			
Mid-positions	Up to 2 freely programmable mid-positions				
	Accuracy of ±0.25% of the displacement encoder length, but at least ±2 mm				
	The accuracy of the intermediate positions in the case of the swivel module DSMI is ±2°				
	Can be used as sensor functionality, i.e. when a mid-position is overrun, a logic 1 signal is supplied at the corre-				
	sponding output for 50 ms				
	Intermediate positions can be approached from both sides				
Travel to fixed stops without shock absorber					
Stop position: parameterisable functionality, e.g. fixed stop with very short braking ramp; adaptation on/off					

Comparison:

 $Travel\ times\ and\ speed\ curve\ with\ Soft\ Stop\ and\ conventional\ drive\ with\ shock\ absorbers$





- 1 Drive with electronic end-position controller SPC11
- 2 Drive with shock absorber
- v Speed
- t Time

- 1 Drive with electronic end-position controller SPC11
- 2 Drive with shock absorber
- a Acceleration
- t Time

Overview: Available drives for Soft Stop

Standards-based cylinder DSBC with external dis- placement encoder	Standards-based cylinder DNCI with built-in dis- placement encoder	Rodless drives DGC/DGC-K	Rodless drives DDLI/DGCI with built-in displacement encoder	Swivel module DSMI with built-in displacement encoder
Double-acting piston rod	Double-acting piston rod	Rodless linear drives DGC	Pneumatic linear drives	Swivel module with built-in
drive DSBC with a wide	drive DNCI, optionally with	and DGC-K are suitable for	DDLI/DGCI with built-in	potentiometer based on
range of variants. The nec-	through piston rod and	applications with high	displacement encoder,	the swivel module DSM.
essary displacement	external guide unit.	loads and a small installa-	optionally with moment	• Size:
encoder is attached.	• Diameter:	tion space. The displace-	compensator or slide.	40 mm
• Diameter:	3263 mm	ment encoder is attached.	• Diameter:	Swivel angle:
32125 mm	• Stroke:	• Diameter:	2563 mm	Max. 270°
• Stroke:	100500 mm	1880 mm	• Stroke:	• Torque:
12800 mm		• Stroke:	1002000 mm	Max. 20 Nm
		18500 mm		