

Electronic end-position controller Smart Soft Stop SPC11

FESTO



Faster!

Tuning for pneumatic drives that cuts travel times by up to 30 % and dramatically reduces vibration in the approach to the end position.

Provides free travel for pneumatic drives

The Smart Soft Stop system enables the travel time from A to B to be reduced by up to 30 % and improves cushioning characteristics in the end position for linear and semi-rotary drives – thereby increasing the service life of the drives. New! Travel to fixed stops without shock absorbers.

Absolutely economical

Reduced travel times, fewer vibrations and longer system service life for optimum production and greater productivity, easy, quick installation and commissioning without costly in-house constructions – and all of this at a very attractive price.

Absolutely flexible

Up to two freely selectable intermediate positions without fixed stop for ejector or rest positions. Replaces in-house constructions and expensive electromechanical drive solutions.

Absolutely easy to install

Festo plug & work® means trouble-free installation and quick, easy commissioning using the “teach-in” function – even when retrofitting existing shock absorber solutions. All it takes are just a few changes on the PLC side.

Absolutely safe and reliable

Minimises maintenance costs due to the reduced vibration load.



Reduced cycle times,

minimised vibration,

two intermediate positions.

138.1.PSI →

Product Short Information

Electronic end-position controller

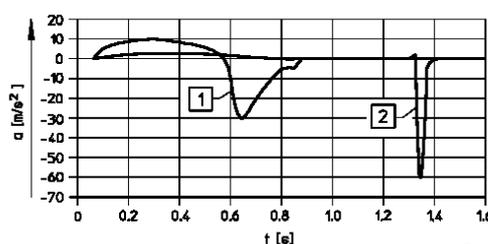
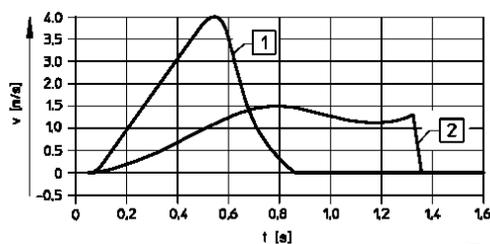
Smart Soft Stop SPC11

Features		
Moving loads	2 ... 300 kg (horizontal) 2 ... 100 kg (vertical)	
Activation	with closed control loop as autonomous controller	
	PLC interface	Digital I/O AS-interface
	PLC interface: all system parameters can be defined and changed externally. A 1 signal at the remote input locks all pushbuttons on the end-position controller SPC11.	
Intermediate positions	up to two freely programmable intermediate positions	
	accuracy $\pm 0.25\%$ of the displacement encoder length, and no less than ± 2 mm	
	the level of accuracy of intermediate positions is $\pm 2^\circ$ for swivel module DSMI	
	usable as a sensor functionality, which means that when the relevant intermediate position is passed, a 1 signal is produced at the corresponding output for 50 ms.	
intermediate positions can be approached from both sides		
Travel to fixed stops without shock absorbers		
New! Stop position		
Parameterisable functionality, for example, stop with shortest braking ramp; on/off adaptation		



Comparison

Travel times and speeds with Smart 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 Smart Soft Stop

Standard cylinders DNC	Standard cylinders with attached displacement encoder DNCM	Rodless drives DGP/DGPL	Rodless drives with integrated displacement encoder DGPI/DGPIL	Swivel modules with integrated displacement encoder DSMI
Double-acting piston rod drive DNC with a wide range of variants. The necessary displacement encoder is attached to the cylinder. – Diameter: 32 ... 80 mm – Stroke: 100 ... 735 mm	Double-acting piston rod drive, available with through piston rod or hollow through piston rod and external guide unit. – Diameter: 32/50 mm – Stroke: 100 ... 500 mm	Rodless linear drives DGP and DGPL. Suitable for applications with high loads and tight installation spaces. The necessary displacement encoder is attached to the cylinder. – Diameter: 25 ... 63 mm – Stroke: 225 ... 2,000 mm	Pneumatic linear drives DGPI/DGPIL with integrated displacement encoder, available with driver or slide. – Diameter: 25 ... 63 mm – Stroke: 225 ... 2,000 mm	Swivel module with integrated potentiometer based on the swivel module DSM. – Sizes: 25, 40 mm – Swivel angle (max.): 270° – Max. torque: 5 or 20 Nm respectively

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