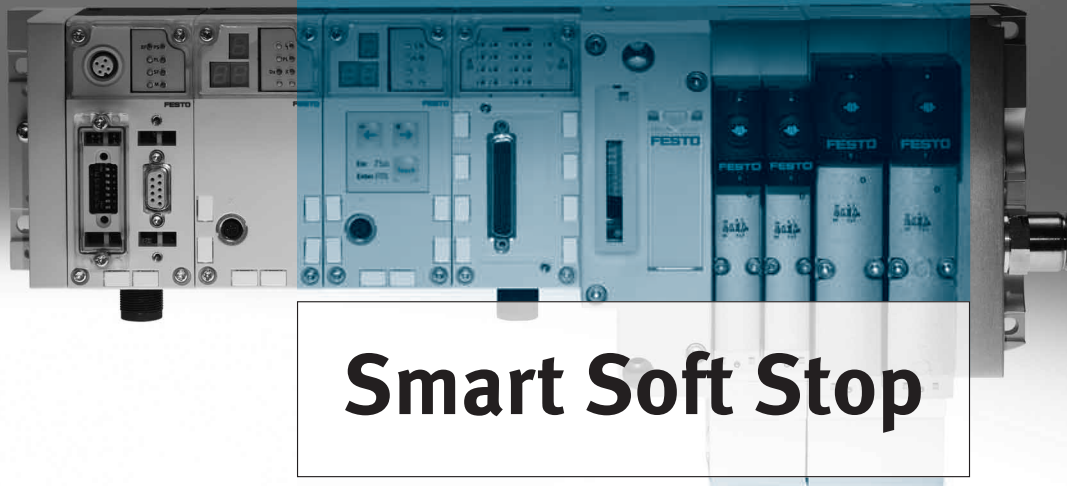


# Electronic end position controller Smart Soft Stop CMPX-C-1-H1

FESTO



More than 15,000 Smart Soft Stop systems have been installed in ten years: It's an ongoing success story. This unique function is finding its own way into the world of modular electrical terminals with the CMPX electronic end position controller.

#### Smart Soft Stop: The principle

The electronic end-position control enables a cycle time reduction of about 30 % together with almost vibration-free travel to the mechanical end-positions. The Smart Soft Stop can move loads up to 300 kg very dynamically. The system also enables travel to two additional, freely definable intermediate positions without a (fixed) stop.

#### Smart Soft Stop: Networking

It is possible to connect to a higher-level PLC via all of the available fieldbus nodes in the CPX range. Stand alone control is

alternatively possible via the Front End controller CPX-FEC.

#### CPX Smart Soft Stop: New features

- Can be taught-in in less than 2 minutes, thanks to the pressure sensors of the VPWP proportional valve
- The mid-position can be written dynamically via the fieldbus
- Pneumatic brake/clamp unit actuation as an integral component of the Smart Soft Stop system
- Fast diagnostics and trouble shooting via 9 different fault groups



Smart Soft Stop

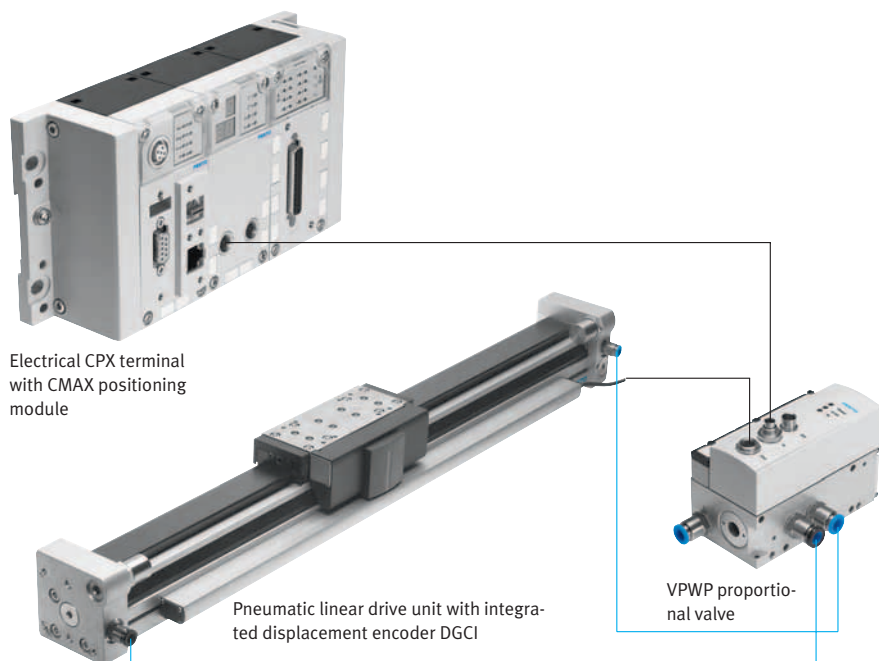
Communication

Safety first

210.21.PSI →

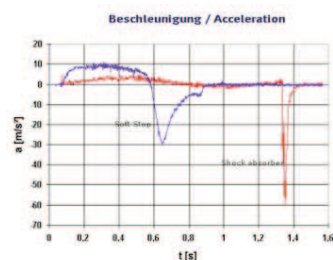
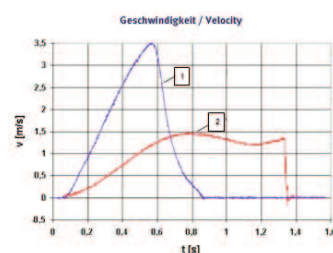
Product Short Information

# Electronic end position controller Smart Soft Stop CMPX-C-1-H1



## Comparison

Travel times and accelerations with Smart Soft Stop and conventional drive with shock absorbers



Key features	
Moving loads	1 - 300 kg horizontal 1 - 100 kg vertical
Actuation	Via all fieldbuses available in CPX Front End Controller FEC
Mid-positions	Up to two freely programmable mid-positions, also via a fieldbus Accuracy $\pm 0.25\%$ of the displacement encoder length, and no less than $\pm 2$ mm. Standstill monitoring via pressure sensors in the valve Reliable in combination with the "Brake" function
Max. line length between the controller and the drive: 30 m	
Fast, vibration-free travel between two (fixed) stops	



## Overview of drives available for the Smart Soft Stop CMPX-C-1-H1

Rodless	Standard cylinders	Drives	Semi-rotary drive
DGCI linear drive	DNCI	with potentiometer	DSMI
DGCI drive with digital displacement encoder and recirculating ball bearing guide • $\varnothing$ 18 ... 63 mm • Stroke: 100 ... 2000 mm	Double-acting piston rod drive, optionally with continuous piston rod and guide unit • $\varnothing$ 32 ... 63 mm • Stroke: 100 ... 500 mm	Potentiometer Type LWG or TLF for attachment to the drive. Ideal e.g. for welding applications. • $\varnothing$ 25 ... 80 mm • Stroke: 100 ... 2000 mm	Semi-rotary drive with integrated potentiometer • Sizes: 25 and 40 • Swivel angle (max.) 270° • max. torque 5 or 20 Nm

## Festo AG & Co. KG

Ruiter Strasse 82  
73734 Esslingen  
www.festo.com  
Tel. +49 711 347-0  
Fax +49 711 347-2144  
service\_international@festo.com