CPS Smart Sensing

Continuous **P**osition **S**ensing Using Analogue Signal or IO-Link Communication for Linear Actuators



Many applications require more than just end of stroke sensing of an actuator, but traditional methods of continuous sensing are expensive and difficult to implement.

Parker's **CPS series** of the P8S sensor family enables quick, easy, precise, and contactless position sensing of a piston. This can be installed on a standard linear actuator and offers an outstanding price to performance ratio.

Smarter Sensing

The CPS product detects the position of an actuator via the magnet on the piston.

The sensors feature intelligent functionality such as the ability to acquire and locally process information, and communicate with upper level controllers and / or local networks

The sensor settings can easily be adjusted during installation using the yellow teach button or during operation over the IO-Link communication.



Product Features:

- Continuous position sensing
- No modification to the actuator required
- 5 sizes with sensing ranges from 32 - 256mm
- Yellow teach button for easy set-up

- PUR cable 0.3m length
- IO-Link communication with M12 connector
- Analogue version with M8 connector
- IP67 design suitable for any industrial application



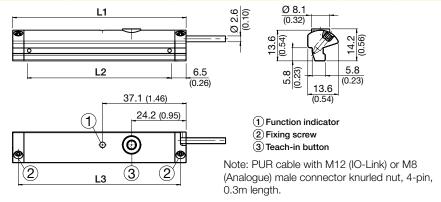
CPS Smarter Sensing

CPS continuously supplies data via analogue signals, IO-Link process data or flexible switching point.

This continuous transfer of position data upgrades the functionality of the pneumatic actuator by making it more intelligent and versatile in support of the Industry 4.0 initiative.

- 1ms sampling rate
- 0.03% full scale resolution
- 0.06% full scale repeatability
- 0.3mm linearity error

Measuring Range (mm)	Order Code		L1	L2	L3
	Analog	IO-Link	(mm)	(mm)	(mm)
32	P8SAGACHA	P8SAGHMHA	45	32	40
64	P8SAGACHB	P8SAGHMHB	77	64	72
128	P8SAGACHD	P8SAGHMHD	141	128	136
192	P8SAGACHF	P8SAGHMHF	205	192	200
256	P8SAGACHH	P8SAGHMHH	269	256	264



How it Installs:

The Parker CPS requires the use of a magnetic piston. The product will fit T-slot cylinders without any additional mounting hardware. Use on a round body, tie-rod, or S-slot cylinder is possible with the appropriate bracket.

- 1. Pivot the sensor into the slot
- 2. Teach the CPS unit the desired measuring range
- 3. Tighten set screws

Further details: www.parker.com/pde/cps

Parker Cylinder Series	Mounting Bracket		
P1A / P1S (ISO 6432)	P8S-TMC0+		
P1D (ISO 15552) P1P (ISO 21287)	None		
P1D (Tie-Rod) (ISO 15552)	PD48955 (32-100) PD48956 (125-320)		
OSP (Rodless)	Not compatible (consult factory)		
R Series (Round)	P8S-TMC0+		
P5T (Thrust)	None		

- + Use "1" for bore size under 32mm Use "2" for bore size under 63mm Use "3" for bore size under 100mm
- ** Parker recommends to use 2 mounting brackets for CPS 64mm and longer

How it Connects:

Analogue version has a M8 connector and a voltage output of 0-10V as well as a current output of 4-20mA.

IO-Link version has a M12 connector and transmits position via 2 bytes of process input data and also allows for parameter control of measuring range and locking of the teach button.

It can be controlled by Class A or Class B IO-Link Masters.

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