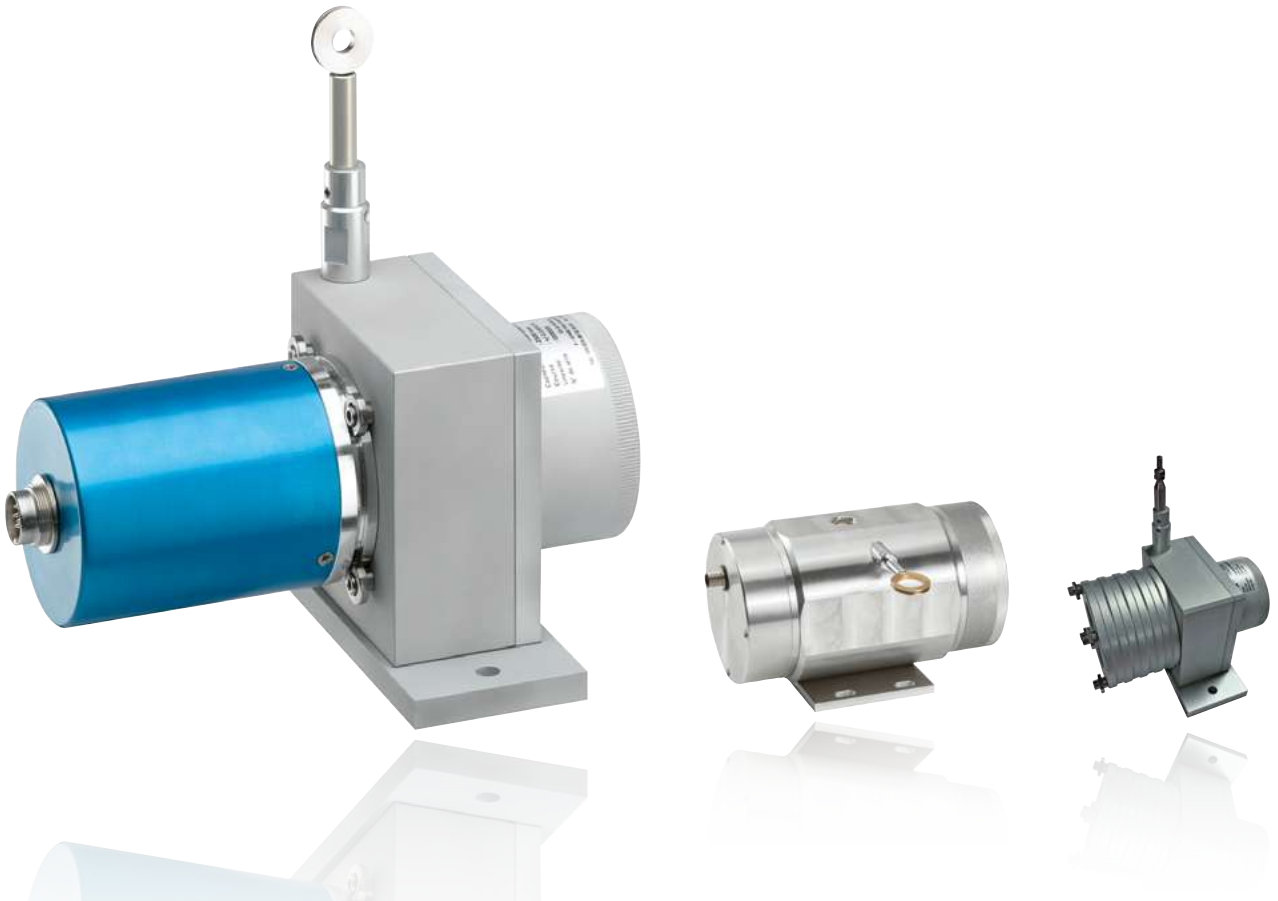
Displacement Measurement

Transducers, Accessories, Electronics



A wide range of transducer from 50 mm to 50 m

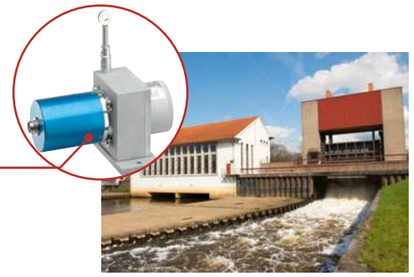
Extremely simple in design, cable displacement sensors are very easy to implement and can be installed on existing systems. Their robustness makes it possible to use them in the most difficult environments.

For all your applications...

SCAIME puts all its experience in the measurement of displacement or position at your service.

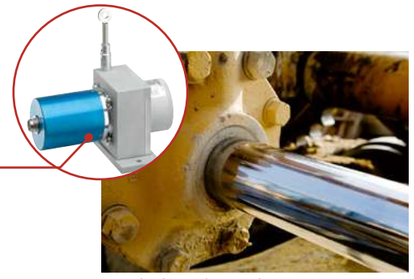
▲ Lift system displacement measurement

With a measuring range of up to 50 m, these sensors are able to give the positioning of a system moving over a long distance.



▲ Valve opening control

Transmission of the valve position to the control station at any time and in complete safety thanks to the absolute 4/20 mA signal from this sensor.



▲ Cylinder rod control

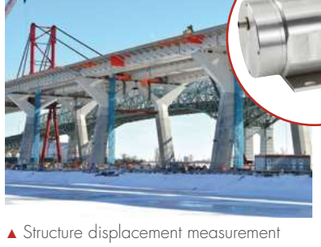
The simplicity of implementation of this sensor allows its integration on existing systems.

▲ Cut to size of wooden part

The sensor fitted with a wire rope cleaning brush allows it to be used in very dusty environments.

▲ Position control

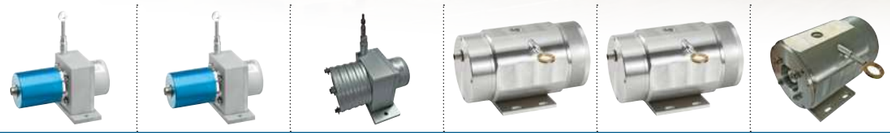
The design of these sensors, without an electronic board, allows them to be used in a medical environment, on mammography machines, for example.



▲ Structure displacement measurement

Thanks to their absolute signals, these sensors are capable of providing reliable position information in time.

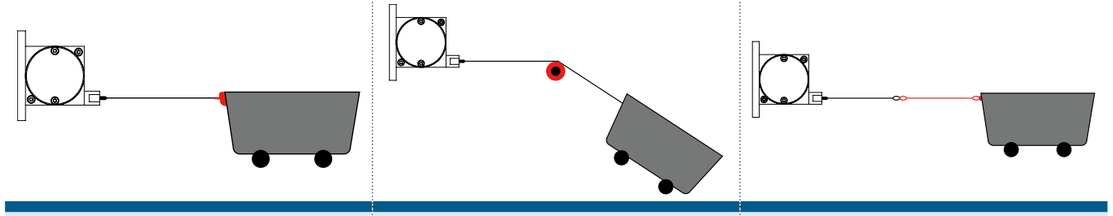
TRANSDUCERS



Type	PTSA	PTSI	PTSM	PTLA	PTLI	PTLM
Full strake range: F.S.	from 0 … 50 mm to 0 … 6 m	from 0 … 50 mm to 0 … 6 m	from 0 … 1.5 m to 0 … 6 m	from 0 … 10 m to 0 … 50 m	from 0 … 10 m to 0 … 50 m	from 0 … 10 m to 0 … 50 m
Accuracy % F.S.	± 0.5 to 0.1 %	± 0.1 to 0.05 %	± 0.05 to 0.01 %	± 0.15 to 0.1 %	± 0.05 to 0.01 %	± 0.05 to 0.01 %
Output	Ω, V, mA			Ω, V, mA		
For customer encoder mounting	no	no	yes	no	no	yes
Protection level	IP67	IP67	NA	IP67	IP67	NA

Consult our complet product range on: www.scaime.com

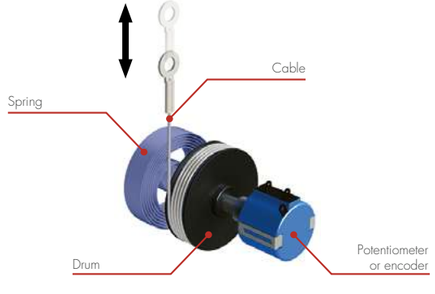
ACCESSOIRES



Magnet	Pulley	Cable extension
To facilitate the fixing of the cable	To align the cable with the sensor output	To move the sensor away from a risk zone

Principle of operation

The cable sensor transforms the linear movement of the cable into rotary movement thanks to a drum connected to a return spring. The sensor delivers a signal proportional to the movement of the cable via a hybrid potentiometer or an optical encoder secured to the axis of the drum. The signal supplied can be analog or pulse. We also offer a range of sensors to mount your encoder.



Solutions from sensors... to software

Well-aware of the need for information technologies development in our business, SCAIME has developed specific softwares to be used with some of our products.

These softwares have been designed to bring some new connectivity solutions and meet our customers requirements to:

- interface our products with automated systems
- carry out data analysis
- save and share the measurement results

Solution for signal processing

SCAIME also offers solutions for conditioning, displaying and transmiting the measurement data. Our electronics include functions covering a wide range of applications:

- Process control
- Monitoring
- Security

For integration into industrial environments, we also offer:

- Standard interfaces with the main automated systems (PROFIBUS-DP, Modbus-RTU, CANopen®)

ELECTRONICS

●: Standard - O: Optional




Model	CPJ	F381A	IM-P	GM80	SI-USB 3
Type	*Transmitters*		*Indicators*		*Acquisition*
Connectable sensors	Potentiometer	mV/V, pulses, ± 5 V	Potentiometer 4-20 mA ±10 V	4-20 mA ±5 V	mV/V, 4-20 mA, ±10 V, PT100, pulses
Accuracy class	0.05 %	0.02 %	0.02 %	0.1 %	0.05%
Max. measuring speed (meas./s.)	-	4 000	100	1 000	5 000
Display	-	Color display touch panel	LCD 14 mm	LCD 9 mm	PC
Logic Input (I) / Outputs (O)	O 2 O	● / ● 16 I / 16 O	● / O 3 E / 4 S	● 2 I / -	-
Analog Output	●	●	O	-	-
Sérial link RS485 / RS232 / USB	-	- / ● / -	O / - / -	- / - / ●	- / - / ●
Modbus / PROFIBUS®	-	-	O / O	-	-

Advice and technical assistance...

Customer support is one of the missions of our engineers.
We are here to help you define your needs, choose the best solution and assist you during the implementation phases.
We have many calibration benches in conformance with international standards. The adjustments and calibrations of measurement systems are performed by specialized our technicians in compliance with applicable standards.

scaime

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