



PYTHON

INFRARED SENSOR

- ✓ Measuring range from 216mm to over 3500mm
- ✓ Detect both the edge and centre of soundtransparent and other materials
- ✓ Easy and intuitive user interface
- ✓ Quick and easy calibration
- ✓ Very quick response time, 2 ms
- ✓ Advanced electronics with customisation possibilities
- ✓ Compact design
- ✓ Not sensitive to external light
- ✓ High noises protection
- ✓ Selectable outputs 0÷5V, 0÷10V, 4÷20 mA, 0÷20 mA, 0÷24 mA

Python is an innovative infrared sensor with the transmitter and the detector on the same and unique bracket.

The sensor has been designed to detect the edge positioning, both left or right, of materials such as paper, cardboard and opaque plastic film.

Python is also able to detect the centre positioning and calculate the material width.

Its compact design make it easy to install in any position of the machine as in many situations it does not need a countertop behind the material

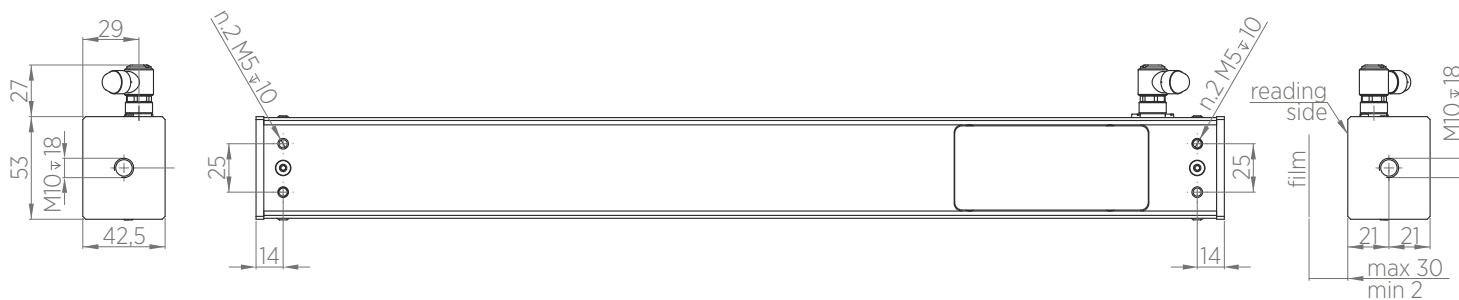
Python is equipped with state-of-the-art electronics that guarantee a reading range from 216mm to over 3500mm and very fast response times.

Python is equipped with an integrated keypad with four buttons, a 23-LED bar and a four digit display for an easy and quick calibration.

Five outputs (0÷5 V, 0÷10 V, 4÷20 mA, 0÷20 mA, 0÷24 mA) always available and selectable by the customer, allow the sensor to be installed on any type of web guiding system in any application. Python can be supplied with CAN communication for sensor calibration.

The reading of the material over the entire length of the sensor, allows Python to be the perfect solution even for major format changes.

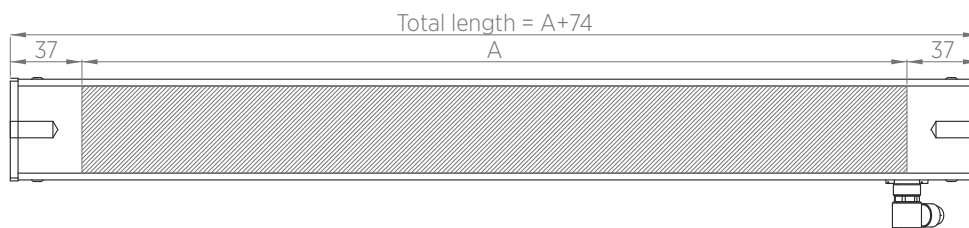
TECHNICAL DRAWING



Depending on the width of the material, Python can be supplied with reading of the entire strip or with a central dead zone, defined according to customer requirements, within which there are no sensors for reading.

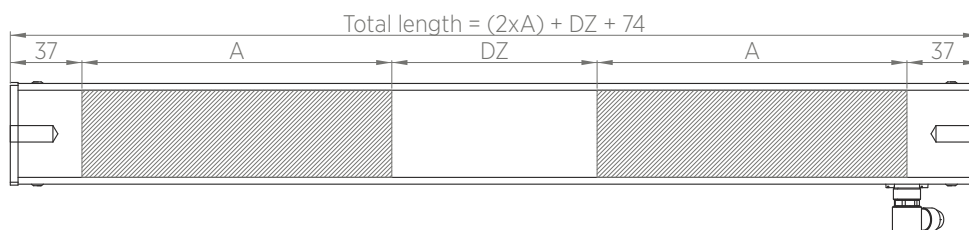
PYTHON single reading

A = min. 216mm (1 sensor)
+210mm x N° additional sensors

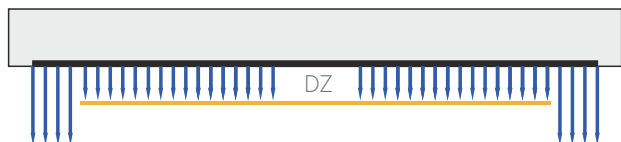


PYTHON double reading

A = min. 216mm (1 sensor)
+210mm x N° additional sensors
DZ = death zone (request by customer)



FUNCTIONING



Python is equipped with an infrared illuminator and a receiver consisting of linear CIS mounted on a single bracket. Depending on the received signal strength, the microprocessor is able to identify the portion of the material and calculate the correct position of the edges and centre.

TECHNICAL CHARACTERISTICS

Power supply	24 Vdc
Measuring range	from 216 mm to over 3500 mm
Distance from the material	from 5 mm to 30 mm
Response time	2 ms
Analogue outputs	0÷5 Vdc 0÷10 Vdc 4÷20 mA 0÷20 mA 0÷24 mA
Fieldbus	CAN Re (proprietary protocol)
Connector	M9 8 pins
Working temperature	10÷50° C
IP protection class	Ip20

*Data are subject to technical change without notice



Re S.p.A.
via Firenze 3
20060 Bussero (MI) Italy

T +39 02 9524301
F +39 02 95038986
E info@re-spa.com

Assistenza tecnica
Technical support
T +39 02 952430.300
E support@re-spa.com

Assistenza commerciale
Sales support
T +39 02 952430.200
E sales@re-spa.com