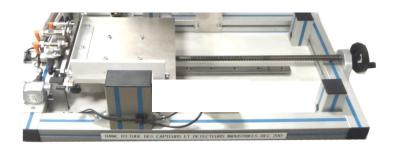
BEC 050



Bench study of industrial detectors and sensors

DESCRIPTION

- The bench study of the sensors BEC 050 allows to characterize the behavior and operation of inductive proximity sensors, capacitive, electric photo as well as a pressure sensor.
- This bench comes complete with experimentation material, manual and technical documentation.
- Industrial equipment.
- The didactic interest of BEC 050 is directed to different levels and fields of study.



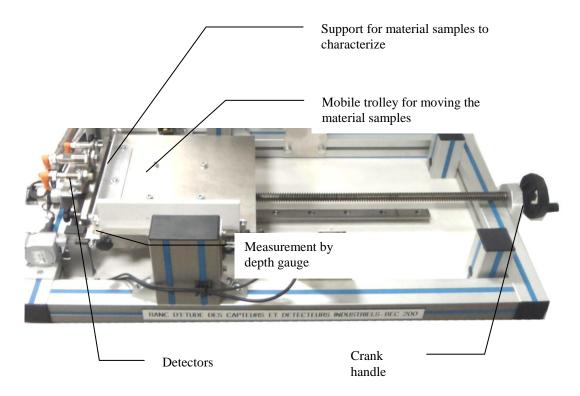
PEDAGOGICAL APPLICATIONS

- Characterization of technological compatibilities of detection / material to be detected
- Determination and quantification of hysteresis effects of the sensors
- Determination of the action area of a sensor
- Programmable optical sensors, inductive, capacitive and pressure sensor

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Technical description:



Structure:

- Benchtop bench
- Structure in anodized aluminum profiles
- 4 feet
- 1 mobile trolley for integrating the material samples to be detected
- 1 crank handle for precise movement of the trolley.
- 1 depth gauge accuracy of reading 0.01mm allowing to evaluate the detection distances for each substance / detector.

Electrical box:

- Case with integrated components DIN Format
- Power supply 24VDC for supply of sensors
- 1 circuit breaker
- 1 protection fuse
- Switch on / off
- <u>Connections</u> of all sensors and detectors by extenders industry standards (3 wires, 4 wires, M8 or M12)

Proximity detectors proposed:

- Inductive sensor
- Capacitive sensor
- Programmable photoelectric sensor
- Each sensor features a **status LEDs** allowing to visualize when this latter changes state

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Pressure sensor:

- <u>Pressure sensor</u> with programmable <u>pressostat function</u>
- Display of <u>pressure values</u> as well as the <u>commutations outputs</u> (with color change of the display according to the pressure level measured against the thresholds
- Output NO/NC configurable
- On/Off thresholds / configurable triggering
- Pneumatically supply of the sensor by a pressure regulator allowing to vary the latter.
- Providing also a suction cup with venturi for measuring negative pressures.

Material plates:

- Plate compatible with the integrated mobile trolley housing.
- 1 PVC plate
- 1 sheet of polycarbonate (transparent)
- 1 aluminum plate
- 1 steel plate

Utilities:

- Power of the bench in 230V / 50Hz
- Compressed air max 7 bars
- Envelope dimensions (L*W*H in mm): 800*600*400
- Weight: 50kg approx

Miscellaneous:

- Manual, technical documentation of the sensors and detectors as well as the lab exercises are provided in paper and digital format