

Micro Detectors

Italian Sensors Technology

Inclination Sensor INC series

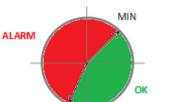


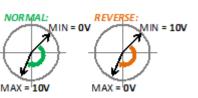
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M18 cylindrical sensor

- 5 pole cable or M12 pig-tail
- Metal housing
- 0 ... 360°
- Resolution: 0,025°
- Analogue output programmable: Voltage/Current
- User interface with 4 warning leds and teach on BU
- Completely resined sensor (IP 67)
- BUS RS-485 addressable (max 128 nodes)
- OFFSET and MIN/MAX angle setting
- Alarm setting







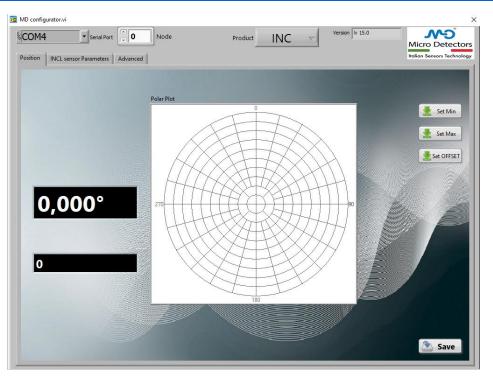
• Special brackets available: ST 18-S, ST 18-V





User Guide



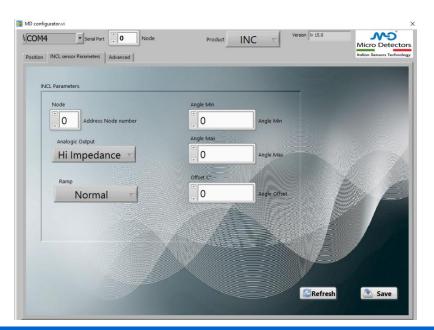


Setting of all parameters to use correctly the sensor.

Programming interface, easy to use, freely downloadable from MD site.

Setting of:

- OFFSET
- minimum inclination point
- maximum inclination point





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Application: monitoring a jockey roller in textile, paper, metal industry.
Need: a surface treatment can achive the maximum performances only if the process works at defined and controlled speed. The jockey roller is used to balance the pull/push forces of unwinding/winding machines.
How: the inclination sensor in mounted on the jockey roller arm to measure the position of the arm.

Application: monitoring a jockey roller in electronic components manufacturing.
Need: different materials have to be assembled with high precision. The jockey rollers are used to keep the different foils at the right tension.
How: the inclination sensor in mounted on the jockey roller arm to measure the position of the arm and so the force on the foils.

03/10/2016





Application: tail lift.

Need: the platform has to be kept orrizontally to avoid the the goods fall dawn. This is really necessary for lifter for people with disability.

How: Inclination sensor detect the position of the platform. The system can act to keep the platform horizontal independently from the wheight of the loads.



03/10/2016

Application: aereal platform

Need: the exact position of the **work platform arm system** must be monitored continuously to guarantee the **stability** of the aerial work platform, the safety of personnel, and to prevent damages.

How: The inclination sensors detect the exact position of the arm system on the **aerial work platform**.



Application: crane

Need: to work in safety conditions, it is necessary that the vehicle is constantely horizontal **How:** inclination sensors detect the position of the vehicle. Thank to the high resolution it is possible to adjust automatically the position of the vehicle.







M:

Micro Detectors

Application: fork lift

Need: to place the pallet on the shelf it is necessary to keep the fork in the right position.

How: If lift heights are very high, or when the driver is unable to see the exact **fork inclination** in the rack, inclination sensor can be solution. The driver is aware at all times of the **exact fork inclination**.









Application: solar panels (electrical, thermal)Need: to maximize the production of solar energy, it is necessary that the panels are correctly oriented according the solar positionHow: inclinometer sensor gives the exact position of the panels





Application: wind mill

Need: wids change in directions, strenghts, ... The wind mill is subjected to different stresses

How: an inclinometer sensor detects the position of the wings and the inclination of support to avoid damages



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Application: pile driver

Need: it is neccessary to have a correct information of the direction of insertion of the pile

How: inclinometer sensor gives a very pricise indication on the direction

Application: drilling machine

Need: it is neccessary to have a correct information of the direction of the drilling

How: inclinometer sensor gives a very pricise indication on the direction









Application: vehicles liftNeed: it is necessary to keep the lift horizontalHow: inclination sensor can detect the position of each support and adjust the elevation in the correct way



Application: cranes

Need: according to the weight position, the load can introduce dangerous inclination on the crane

How: inclination sensor detect the inclination of the crane and avoid that the tilt became dangerous







Application: precise alignment of examination table

Need: high accuracy and outstanding resolution are the prerequisite for gentle therapy and positioning of patients.

How: inclination sensor provides exact positioning of the examination tables.



Application: tipper position detectionNeed: detection of the position of the tipper to avoid tip overHow: inclination sensor gives the exact position of the tipper



FinMasi Group







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