



Italian Sensors Technology

Inclination
Sensor
INC series



# Specifications



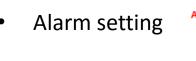
#### M18 cylindrical sensor

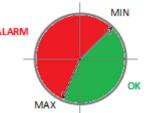
- 5 pole cable or M12 pig-tail
- Metal housing
- 0 ... 360°
- Resolution: 0,025°

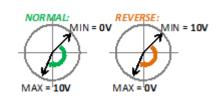


- User interface with 4 warning leds and teach on BU
- Completely resined sensor (IP 67)
- BUS RS-485 <u>addressable</u> (max 128 nodes)







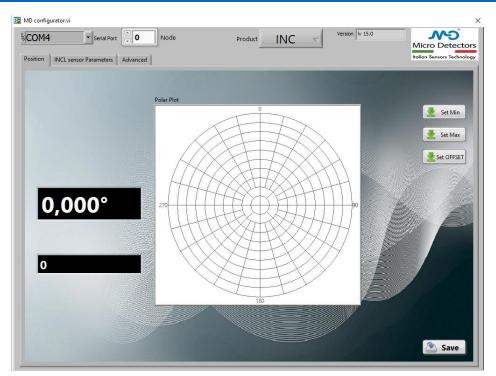


Special brackets available: ST 18-S, ST 18-V



### User Guide



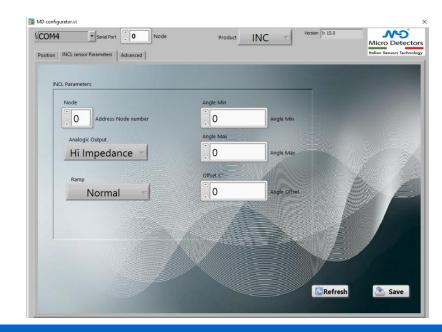


Programming interface, easy to use, freely downloadable from MD site.

#### Setting of:

- > OFFSET
- > minimum inclination point
- > maximum inclination point

Setting of all parameters to use correctly the sensor.









**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.







**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.







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 position

**How:** 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





**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 lift

**Need:** it is necessary to keep the lift horizontal

How: 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 detection

**Need:** detection of the position of the tipper to avoid tip over **How:** inclination sensor gives the exact position of the tipper



# FinMasi Group





