

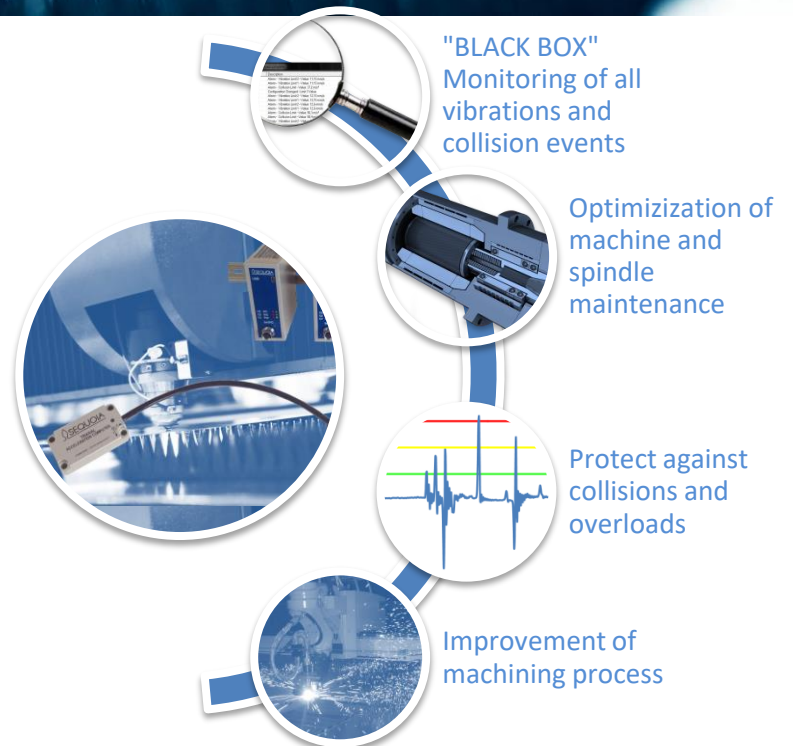


SeTAC – Full SCENARIO

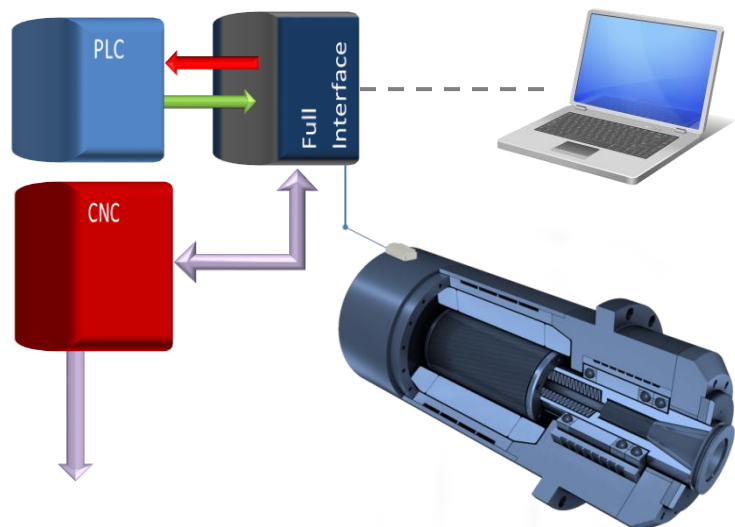
The Perfect system for Vibrations monitoring on Machine Tools

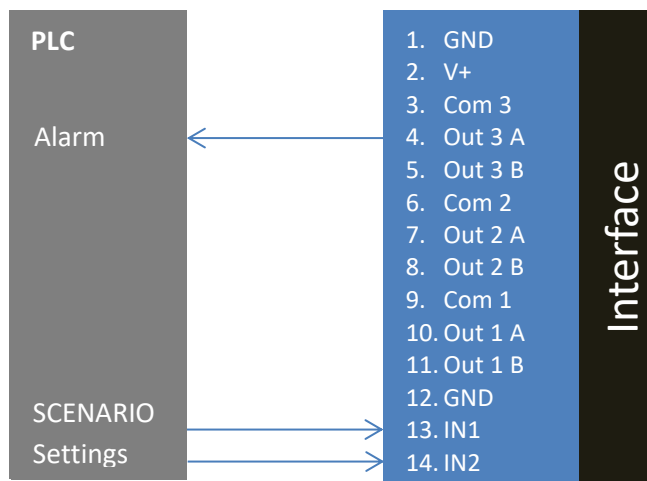
The Full Interface, makes of SeTAC the most complete system for vibration monitoring and control for Machine Tool:

- **Black Box**
Up to 12.000 vibration and collision events stored in the sensor memory categorized in term of type, value and time, completely correlated with machine operation thanks to the scenario option
- **Spindle Residual Life**
Through measurement of actual dynamic loads acting on spindle
- **Airbag**
To protect against collisions and overloads machine, spindle and working parts during working process
- **Digital data communication**
Integrated directly in the machine CNC and/or spreadable over the factory, company or internet network, enhances SeTAC possible applications



Configuration Example on Machine Tool





With this interface, up to 3 relay alarms can be sent to machine PLC. One of the alarms is linked to collision event while the other two are linked to RMS vibration velocity threshold exceeded during working process.

In order to define different vibration limits for different machine working process and to better correlate the events register within sensor internal memory with machine operation, two digital inputs are available to set up to four different scenarios.

| Digital Input | Scenario 1 | Scenario 2 | Scenario 3 | Scenario 4 |
|---------------|------------|------------|------------|------------|
| IN 1 | 0 | 1 | 1 | 0 |
| IN 2 | 0 | 0 | 1 | 1 |

Configuration and retrieve of register data in sensor memory is done via PC with dedicated software through USB connection

Standard M12-8 poles extension cable is used to connect the sensor to the interface

Technical Specification

Sensor

| | |
|-------------------|-----------------------|
| Full scale | ±18g |
| Bandwidth | 0÷2500 Hz |
| Resolution | 0,00075g |
| Dimension | 30x55,5x15 mm |
| Weight | 55g |
| Supply Voltage | 18-26 V _{DC} |
| Protection grade | IP67 |
| Shock Resistance | 10.000 g |
| Temperature Range | 0÷70°C |
| Internal Memory | 12.000 Events |

Interface

| | |
|---------------|---------------------------------------|
| Communication | USB, Modbus TCP |
| Output | 3 Fast (< 1ms) relays |
| Input | 2 digital Input for Scenario settings |



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