

WS Position Sensors Application Guide



Length Measurement and Display

Using the ASM Position Sensors in combination with a digital Process meter (WS-UDIC, WS-CNT, WS-SSI) offers a simple “turn-key” solution to many applications where length measurement is required. Additionally the sensor output can be used in a processing unit (PLC) or via the RS-232 output of the Process meter to a PC system.

Sawing Machines
Quality Control

Linear Measurement

WS Position Sensors used with Data Loggers, Memory Recorders or computer systems are an ideal sensor for applications in test, development and research.

Automotive Crash Test and Chassis Dynamics Tests
Long-term Test of mechanical components such as Airframe Structures

Machine Limit Positioning and Control

ASM Position Sensors are a modern, cost-effective alternative to proximity and limit switches on most automatic machinery and systems. The sensor signal can be fed to a PLC; or the comparator outputs of the ASM Process meters (WS-UDIC, WS-CNT, WS-SSI) can be used.

Scissor Lift Table
Liquid Level
On/off Valves

Continuous Position Monitoring

Continuous position detection of linear movement on PLC controlled machines. Sensor output signals are detected by analog, digital or counter input cards of a PLC. WS Position Sensors are a simple, easily installed alternative to other measuring systems e.g. encoders with gear drives, linear potentiometers or glass scales.

Injection Moulding Machines
Packaging Machines
Automated Materials Handling
Fork Lift Trucks
A.G.V. (Automatic Guided Vehicles)
Medical X-Ray Systems

Closed-Loop Position Control

ASM Position Sensors can be used as the primary position sensing element of a PLC closed-loop position control system. High resolution, high mechanical dynamic and linear sensor signals allow fast and accurate positioning with P.I.D analog or digital controllers.

Material Handling Robots
Automotive and Aircraft Simulators
Coiling Machines (Plastic, Paper and Steel Rolls)
“Dancer” Position

Synchronous Motion Control

Movement control of hydraulic or electric actuated single or multi-axis PLC controlled systems. High sensor linearity giving absolute assurance of synchronous motion.

Hydraulic Lifting Platforms
Sluice gates
Industrial Presses
Industrial Guillotines

The above information is provided as a user guide only and is not part of our specific technical product data.