

## Draw-wire displacement sensors take measurements in pipe trade

In the pipe trade orders are placed for fixed lengths of a certain type of pipe. The available pipes with different lengths are transported from the stores to a measurement table to process the order. Here, pipes are inserted one after the other and the partial lengths summed up using a rugged draw-wire displacement sensor. The movable stop on the table is linked to a sensor wire extension pretensioned by a spring-driven motor. The draw-wire extension in the dirty section guarantees a clean wire intake in the sensor and a long service life.

### Technical details

- Measuring range: 7.5 m
- Accuracy: ok for 10 mm
- Resolution: 1 mm
- Bandwidth: quasi static

### Ambient conditions

- Temperature: 10 to 35 °C
- Medium: air
- Interference fields: none
- Large amounts of oil and dirt

### Measurement system set-up

WDS-7500-P501S-P	Draw-wire displacement sensor MR 7.5 m
PC 3/8	Supply/output cable 3 m
WEX - WDS	Wire extension 7.5 m
2 x TR1-WDS	Deflection roller with mounting block

### Reasons for the system selection

- High accuracy and resolution.
- Easy fitting and operation.
- Economical, compact housing version.
- Numerous measuring ranges and possible options.

