Powerful sensors to meet growing demands
The Company

- Founded 1999
- Headquarter in Munich and branch in Cologne
- Distributors in over 30 countries worldwide
- Manufacture of sensors for position and distance measurement
- Product range of premium sensors & custom solutions for industry & research
Product Range

- Draw Wire Sensors
- Laser Sensors
- LVDT
- Linear Potentiometers
- Magnetic Scales
- Ultrasonic Sensors
- Magnetostrictive Transducers
- Non-Contact Inductive Sensors
- Digital Length Gauges
- Encoders
- Digital Linear Scales
- Capacitive Sensors
Draw Wire Sensors - Key Features

- Measurement ranges from 50 mm to 50 m
- Linearity up to ±0.02 %
- Resolution up to 17 µm
- Available outputs: potentiometric, analog, digital incremental, digital absolute, tachometer
- Protection class up to IP67/IP69K
- Temperature range up to -40...+120 °C
- Operating pressure up to 300 bar
- Seawater resistant versions available
Draw Wire Sensors - Application Examples

- Stroke Measurement
- Wind Turbine
- Embankment Dam
- Mobile Hydraulics
- MRI Scanner
Laser Sensors - Key Features

► Measurement ranges from 0.5 mm to 150 m
► Linearity up to ±0.1 %
► Resolution up to 0.02 µm
► Available outputs: analog, digital incremental, digital absolute
► Protection class up to IP67
► Temperature range up to -40...+50 °C
Laser Sensors - Application Examples

Storage Automation

Tolerance Control

Quality Control

Unbalance Measurement
LVDT - Key Features

► Measurement ranges from 2 mm to 500 mm
► Linearity up to ±0.1 %
► Resolution up to 0.01 %
► Available output: analog
► Protection class up to IP67
► Temperature range up to -40...+120 °C
► Operating pressure up to 350 bar
LVDT - Application Examples

- Spaceflight
- Medical Technology
- Agriculture
- High Temperature Area
Linear Potentiometer - Key Features

► Measurement ranges from 10 mm to 2000 mm
► Linearity up to ±0.05 %
► Available outputs: potentiometric, analog
► Protection class up to IP67
► Temperature range up to -30...+100 °C
► Operating pressure up to 250 bar
Linear Potentiometer - Application Examples

Automotive

Plastics Industry
Magnetic Scales - Key Features

- Measurement ranges up to 100 m
- Linearity up to ±2 µm
- Resolution up to 0.5 µm
- Available outputs: analog, digital incremental, digital absolute
- Protection class up to IP68
- Temperature range up to -25...+85 °C
Magnetic Scales - Application Examples

- Elevators
- Length Measurement
- Machine Positioning
Ultrasonic Sensors - Key Features

► Measurement ranges from 150 mm to 5400 mm
► Linearity up to ±0.3 %
► Resolution up to 0.125 mm
► Available outputs: analog, control
► Protection class up to IP67
► Temperature range up to -20...+70 °C
► ATEX version available
Ultrasonic Sensors - Application Examples

Fluid Level Monitoring

Presence Detection
Magnetostrictive Transducers - Key Features

- Measurement ranges from 50 mm to 4000 mm
- Linearity up to ±0.01 %
- Resolution up to 2 µm
- Available outputs: analog, digital absolute
- Protection class up to IP67
- Temperature range up to -30...+90 °C
- Operating pressure up to 350 bar
MagnetostRICTive Transducers - Application Examples

Lifting Platforms

Bascule Bridges
Non-Contact Inductive Sensors - Key Features

► Measurement ranges from 2 mm to 24 mm
► Linearity up to ±0.025 mm
► Resolution up to 0.005 µm
► Available output: analog
► Protection class up to IP68/IP69K
► Temperature range up to -40...+70 °C
Non-Contact Inductive Sensors - Application Examples

Tolerance Control On Oiled Objects

Traffic Safety
Digital Length Gauges - Key Features

- Measurement ranges from 12 mm to 30 mm
- Linearity up to ±0.2 µm
- Repeatability up to 0.03 µm
- Available output: digital incremental
- Protection class up to IP67
- Temperature range up to +10...+40 °C
Digital Length Gauges - Application Examples

Multipoint Inspection

Precision Engineering
Encoders - Key Features

► Rotational measurement
► Singelturn or multiturn encoders
► Solid, blind hollow shaft, hollow shaft
► Available outputs: potentiometric, analog, digital incremental, digital absolute
► Protection class up to IP67
► Temperature range up to -40...+120 °C
► Ex 2/22 and seawater resistant versions available
Encoders - Application Examples

Wind Farms

Sluice Gates

Robotic
Digital Linear Scales - Key Features

► Measurement ranges from 140 mm to 3040 mm
► Linearity up to ±3 µm
► Resolution up to 10 µm
► Available output: digital incremental
► Protection class up to IP65
► Temperature range up to -20...+80 °C
Digital Linear Scales - Application Examples

- Two-Dimensional Measurement
- Wood Industry
Capacitive Sensors - Key Features

- Measurement ranges from 0.05 mm to 10 mm
- Linearity up to ±0.2%
- Resolution up to 0.01%
- Available output: analog
- Protection class up to IP68
- Temperature range -50...+200 °C
- High temperature versions up to +450 °C available
Capacitive Sensors - Application Examples

Concentricity Measurement During Operation

Filling Inspection
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