Accuracy counts!

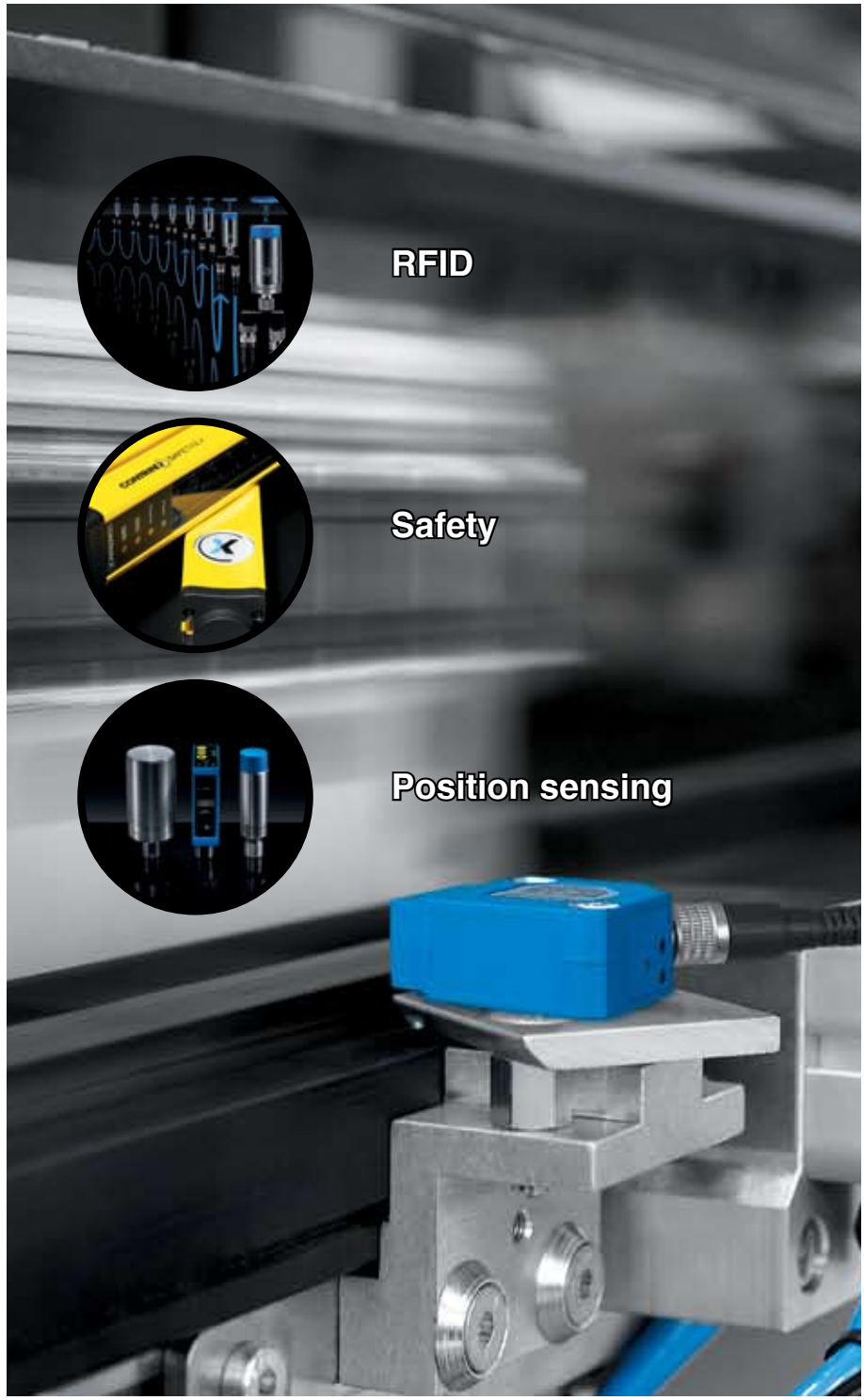
SENSORS WITH ANALOG OUTPUT

CONTRINEX

COMPANY

Contrinex is a leading international high-tech sensor company with headquarters in Switzerland.

Contrinex offers quality and highly innovative sensing solutions for factory automation, including inductive and photoelectric sensors, as well as RFID and safety systems.



OUR STRENGTHS ...

Inductive analog sensors are used wherever physical values, like distances, angles or different kinds of metal, have to be detected and changed into an electrical signal. With extraordinary performance, Contrinex supplies a highly valued and durable product which provides the solution of choice for many problems that could not be solved in the past.

... YOUR ADVANTAGES

SENSING RANGES UP TO 40 MM

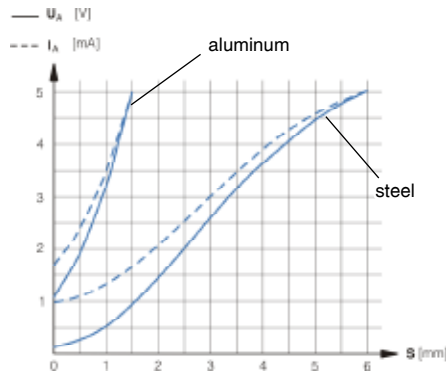
- ✓ Contrinex supplies the longest sensing ranges in the inductive analog market
- ✓ From 0-4mm in a M8 housing up to 0-40mm in a M30 housing
- ✓ Up to 250% higher sensing range than market standard
- ✓ Detection and identification of various metals

BEST TEMPERATURE STABILITY

- ✓ Remarkable temperature range for the analog sensor market from -25°C up to +75°C
- ✓ Temperature drift ≤ ±5% for temperatures from 0...+70°C;
  ≤±10% for temperatures from -25...0°C

EXCELLENT REPEAT ACCURACY

- ✓ High sensing stability
- ✓ ±0.01mm long-term repeat accuracy (T_A=const.)



Response curve DW-A#-509-M12

Part positioning (special type: reduced distance between sensors)

RESOLUTION ≤1µM (M8 AND M12)

- ✓ Detection of slightest movements
- ✓ Recognition of minimal vibrations
- ✓ Identification of concentric running

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APPLICATION EXAMPLES

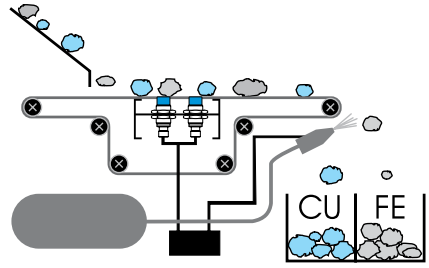
METAL SORTING MACHINERY

REQUIREMENTS:

- ✓ Long sensing range
- ✓ Identification of different metals (ferromagnetic and non-ferromagnetic)
- ✓ High bandwidth for accurate and reliable detection of small and fast moving parts

ADVANTAGES FOR THE CUSTOMER:

- ✓ Cost effective solution
- ✓ Reliable and rugged system



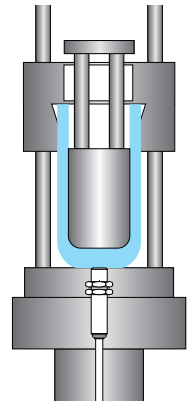
MONITORING OF PROCESSES IN METAL WORKING

REQUIREMENTS:

- ✓ High resolution
- ✓ High repeat accuracy
- ✓ Long sensing ranges

ADVANTAGES FOR THE CUSTOMER:

- ✓ Secure process monitoring
- ✓ Early problem recognition
- ✓ In-tolerance control



MEASURING OF SHOCK ABSORBER COMPRESSION (E.G. CITY TRAIN IN DRESDEN, GERMANY)

REQUIREMENTS:

- ✓ High temperature stability
- ✓ Reliable signal regardless of weather and temperature conditions
- ✓ High repeat accuracy

ADVANTAGES FOR THE CUSTOMER:

- ✓ Wear measuring device for shock absorber
- ✓ Control of track abrasion

AVAILABLE PROGRAM

Standard outputs: 0…5 V / 1…5 mA or 0…10 V / 4…20 mA

All sensors available in connector or cable version.

s_d	Quasi-embeddable	Non-embeddable
M8	0 ... 4 mm	---
M12	0 ... 6 mm	---
M18	0 ... 10 mm	0 ... 20 mm
M30	0 ... 20 mm	0 ... 40 mm
C8	0 ... 4 mm	---

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OTHER APPLICATIONS:

- ✓ Distance measurement
- ✓ Positioning
- ✓ Profile detection
- ✓ Deformation monitoring
- ✓ Vibration monitoring
- ✓ Process monitoring
- ✓ Detection of moving direction
- ✓ Regulated approach to end positions
- ✓ Observation of spring tension (e.g. conveyor belts, textile or wire machinery)
- ✓ Several switching points with only one device

KEY ADVANTAGES:

- ✓ High sensing range
- ✓ Resolution in µm range
- ✓ High repeat accuracy
- ✓ High temperature stability for widest temperature range
- ✓ Voltage and current output in one sensor
- ✓ Identification of various metals (ferromagnetic and non-ferromagnetic)

CE SQS ISO 9001 / ISO 14001 RoHS c UL us LISTED Swiss Quality

CONTRINEX

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