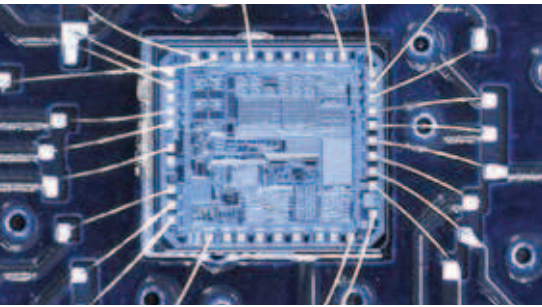


CONTRINEX - A WORLD OF SENSORS



OWN ASICS
TECHNOLOGY LEADER
SOLUTION PARTNER

At a glance

- ✓ Technology leading manufacturer of inductive and photoelectric sensors as well as Safety and RFID systems
- ✓ World market leader for miniature sensors, sensors with long operating distances and devices for particularly demanding operating conditions (all-metal, high-pressure and high-temperature resistant sensors)
- ✓ Represented in over 60 countries worldwide, headquarters in Switzerland
- ✓ 14 own subsidiaries in all major markets
- ✓ More than 500 employees worldwide
- ✓ 8000 products



Contrinex Headquarters, Switzerland

GLOBAL EXPERIENCE, LOCAL SUPPORT

Production

Contrinex manufactures its own sensors, safety and RFID systems in 4 production locations: Switzerland (since 1972), Hungary (since 1995), China (since 2003) and Brazil (since 2009).



Contrinex Hungary - new factory inaugurated in 2013

SENSORS

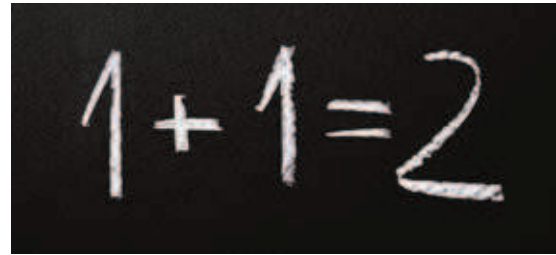
INDUCTIVE

EXCELLENCE IN NORMAL ENVIRONMENTS

BASIC

KEY ADVANTAGES

- ✓ Exceptional price/performance ratio
- ✓ Excellent accuracy
- ✓ Outstanding temperature compensation
- ✓ Vibration and shock resistant
- ✓ Long operating distances



Textiles



Green energy



INDUSTRIES

Textiles, green energy, machine tools, automotive manufacturing, logistics, packaging machines

Housing size (s _n mm)	∅ 6.5 mm	M8	C8	M12	M18	M30	C40	C44
Classics	1.5 ... 2	1.5 ... 4	1.5 ... 2	2 ... 8	5 ... 8	10 ... 15	15 ... 40	15 ... 40
Extra Distance	3	3 ... 6	3	6 ... 10	12 ... 20	22 ... 40	-	-

INDUCTIVE

FULL FUNCTIONALITY, SMALLEST SIZE

MINIATURE

KEY ADVANTAGES

- ✓ Smallest self-contained inductive sensors on the market
- ✓ Miniature sensors are ideal for mounting where space is limited
- ✓ Outstanding temperature stability from -25°C (-13°F) to +70°C (+158°F)
- ✓ High switching frequency up to 5000 Hz
- ✓ Light weight of the sensor
- ✓ Electronics vacuum potted for optimum long-term reliability under high stress



Robotics



Linear drive technology



INDUSTRIES

Micromechanics, robotics, machine tools, automation equipment, special purpose machines

Housing size (s _n mm)	∅ 3 mm	M4	∅ 4 mm	M5	C5
Classics	0.6 ... 1	0.6 ... 1	0.8 ... 1.5	0.8 ... 1.5	0.8 ... 1.5
Extra Distance	-	-	2.5	2.5	-

INDUCTIVE

EXTREME DURABILITY IN HARSH ENVIRONMENTS

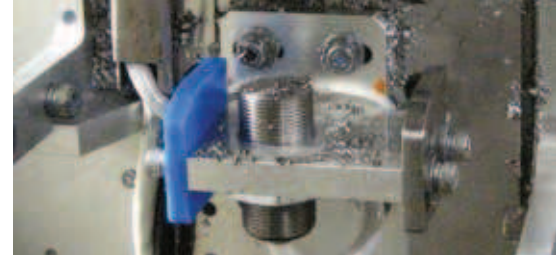
EXTREME

KEY ADVANTAGES

- ✓ Mechanically and chemically extremely robust
- ✓ Corrosion resistant
- ✓ IP 68 and IP 69K, sea-water resistant
- ✓ Pressure resistant up to 80 bar (1160 psi)
- ✓ Factor 1 on steel and aluminum



Machine tools



Mobile equipment



INDUSTRIES

Automotive manufacturing, mobile equipment, packaging, machine tools

Housing size (s _n mm)	M8	M12	M18	M30
Full Inox	3 ... 6	2 ... 15	5 ... 20	20... 40



INDUCTIVE

PRESSURE RESISTANT UP TO 100 BAR (1451 PSI)

EXTRA PRESSURE

KEY ADVANTAGES

- ✓ Pressure resistant up to 100 bar (1451 psi)
- ✓ Mechanically and chemically rugged
- ✓ Impervious: IP 68
- ✓ Gas-tight sensing face
- ✓ Miniature devices



Micromechanics



Pump and valve control



INDUSTRIES

Pneumatics, lubrication systems, pumps, valves

Housing size (s _n mm)	Ø 3 mm	M5	Ø 6.5 mm
Classics	0.8	0.6	-
Extra Distance	-	-	2.5



SENSORS

INDUCTIVE

PRESSURE RESISTANT UP TO 500 BAR (7255 PSI)

HIGH PRESSURE

KEY ADVANTAGES

- ✓ Highest operating (500 bar / 7255 psi) and peak pressure (1000 bar / 14510 psi) on the market
- ✓ Resistant to pressure cycles – 50 times longer lifetime under pressure than the market standard
- ✓ Gas-tight sensing face
- ✓ Large temperature range -25°C (-13°F) ... +100°C (+212°F)



Hydraulic cylinders with sensors



Concrete pumps



INDUSTRIES

Hydraulic and fluid power, concrete pumps, injection molding machines

Housing size (s _n mm)	M5 / P5	M8 / P8	M12 / P12	M14 / P20
Extra Distance	1	1.5	1.5 ... 2.5	3
Full Inox	-	-	1.5	-

INDUCTIVE

TEMPERATURE RESISTANT UP TO +120°C (+248°F)

EXTRA TEMPERATURE

KEY ADVANTAGES

- ✓ Temperature resistant up to +120°C (+248°F)
- ✓ Excellent long term reliability
- ✓ Outstanding accuracy



Aerospace



Automotive manufacturing industry



INDUSTRIES

Machine tools, green industry, aerospace, automotive manufacturing

Housing size (s _n mm)	M5	M8	M12	M18
Classics	0.8	4	2 ... 4	5

INDUCTIVE

TEMPERATURE RESISTANT UP TO +230°C (+446°F)

HIGH TEMPERATURE

KEY ADVANTAGES

- ✓ Models with external electronics for temperatures of up to +230°C (+446°F)
- ✓ Models with integrated electronics for temperatures of up to +180°C (+356°F)
- ✓ Excellent long term reliability



INDUSTRIES

Paintshops, surface treatment, bakery equipment

Housing size (s _n mm)	M8	M12	M18	M30	M50
Classics	2	3	5	10	25



Bakery equipment



Paintshop in automotive industry



INDUCTIVE

ECOLAB APPROVED FOR HARSHTEST
CLEANING PROCESSES

WASHDOWN

KEY ADVANTAGES

- ✓ Corrosion resistant
- ✓ Food safe
- ✓ Mechanically and chemically rugged
- ✓ Full Inox housing
- ✓ IP 68 / IP 69K protection
- ✓ One-piece full-metal housing
- ✓ Waterproof sensor, sea-water resistant



INDUSTRIES

Food and beverage, pharmaceutical industry, offshore and marine applications, industrial cleaning systems

Housing size (s _n mm)	M12	M18	M30
Full Inox	6	10	20



Food processing



Marine applications



SENSORS

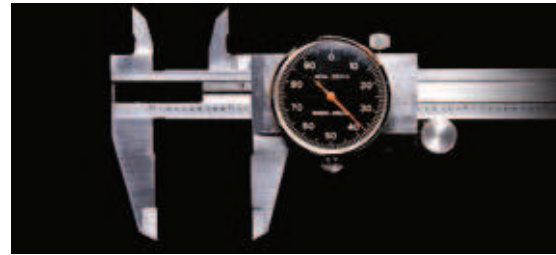
INDUCTIVE

ANALOG OUTPUT FOR DISTANCE CONTROL

ANALOG OUTPUT

KEY ADVANTAGES

- ✓ Longest sensing ranges
- ✓ Best temperature stability
- ✓ Excellent repeat accuracy
- ✓ Resolution in μm range



Position control



Machine tools



INDUSTRIES

Machine tools, printing

Housing size (s_n mm)	C8	M8	M12	M18	M30
Extra Distance	0 ... 4	0 ... 4	0 ... 6	0 ... 20	0 ... 40

INDUCTIVE

DURABLE AND RELIABLE IN WELDING CELLS

WELD-IMMUNE

KEY ADVANTAGES

- ✓ Resistant to electromagnetic fields of up to 40 millitesla
- ✓ Extremely robust
- ✓ Easy to clean – even using harsh methods
- ✓ No false switching caused by metal dust or chips
- ✓ Factor 1
- ✓ No extra protection needed
- ✓ Long operating distances



Automotive manufacturing industry



Welding equipment



INDUSTRIES

Automotive manufacturing, welding equipment

Housing size (s_n mm)	M12	M18
Full Inox	6	10