



# Program overview



SENSORS - SAFETY - IDENTIFICATION



## AT A GLANCE

- ✓ Technology leading manufacturer of inductive and photoelectric sensors as well as RFID and Safety systems
- ✓ World market leader for miniature sensors, sensors with long operating distance and devices for particularly demanding operating conditions (all-metal, high-pressure and high-temperature resistant sensors)
- ✓ More than 500 employees worldwide, headquarters in Switzerland
- ✓ Production sites in Switzerland, Hungary (since 1995), China (since 2003) and Brazil (2009)
- ✓ Represented in over 60 countries worldwide

**Belgium and Netherlands**

Contrinex Benelux bvba

**Brazil**

Contrinex Automação do Brasil Ltda.

**China**

Contrinex Industrial Electronics Co., Ltd.

**France**

Contrinex France SAS

**Germany**

Contrinex GmbH

**Great Britain**

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**India**

Contrinex Automation Pvt Ltd

**Italy**

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**Japan**

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**Mexico**

Contrinex de México, S.A. de C.V.

**Portugal**

Contrinex Portugal, Lda.

**Singapore**

Contrinex (S.E.A.) Pte Ltd

**Switzerland**

Contrinex AG

**USA**

Contrinex Inc.

## MINIATURE



## HIGH SENSING DENSITY

- ✓ Sizes from diameter 3 mm to M5
- ✓ Rectangular models
- ✓ Increased and long operating distances
- ✓ Protection functions built in

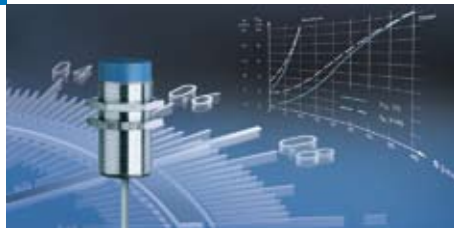
## UP TO 4X OPERATING DISTANCES



## LONG DISTANCES, LARGE TOLERANCES

- ✓ Up to 4x standard operating distances
- ✓ High temperature stability
- ✓ Ideal for objects difficult to detect (small, thin, wires, etc.)
- ✓ Sizes from diameter 4 mm to M30

## ANALOG OUTPUT



## CONTINUOUS INFORMATION

- ✓ Large sensing range from 0...4 mm (M8, embeddable) to 0...40 mm (M30, non-embeddable)
- ✓ Exceptional resolution
- ✓ High temperature stability

## (ALMOST) INDESTRUCTIBLE



## REDUCED DOWNTIMES

- ✓ Mechanically and chemically rugged
- ✓ 3x standard distances on steel & non-ferrous metals
- ✓ Pressure resistant up to 100 bar
- ✓ IP68 & IP69K

## HIGH-PRESSURE RESISTANT



## FOR HIGHLY DYNAMIC PRESSURE SYSTEMS

- ✓ For extremely dynamic pressure requirements
- ✓ Operating pressures up to 500 bar (peaks 1000 bar)
- ✓ Sealing of sensing face better than IP68, gas-tight
- ✓ All-metal housing version also available

## HIGH-TEMPERATURE RESISTANT



### FOR USE IN HOT AREAS

- ✓ For permanent operating temperatures of up to 230 °C
- ✓ Good long-term reliability, even under difficult operating conditions
- ✓ Sizes M8 to M50, embeddable & non-embeddable

## ECONOMICAL



### MAXIMUM PRICE/PERFORMANCE RATIO

- ✓ Sizes from diameter 3 mm to M30
- ✓ 2-wire DC and AC/DC models
- ✓ High quality at attractive prices
- ✓ For standard applications

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## PHOTOELECTRIC

### MINIATURE



### HIGH SENSING DENSITY

- ✓ Sizes diameter 4 mm and M5
- ✓ Diffuse and through-beam sensors
- ✓ Protection functions built in

### CYLINDRICAL LIGHT BEAM



### PRECISE DETECTION THROUGH HOLES & GAPS

- ✓ Diameter 4 mm, M5 and 5 x 7 x 40 mm
- ✓ Cylindrical light beam diameter < 4 mm
- ✓ Operating distance: 10, 20, 50 or 90 mm
- ✓ Protection functions built in

## FIBER-OPTIC SOLUTIONS



### FOR PLACES DIFFICULT TO ACCESS

- ✓ Small fiber-optic amplifiers (30 x 60 x 10 mm) for DIN-rail mounting
- ✓ Teach-in models with digital display and devices with potentiometer setting
- ✓ Extensive selection of optical fibers

## ANALOG OUTPUT



### CONTINUOUS INFORMATION

- ✓ Sensing range of 10...100 mm
- ✓ Excellent resolution
- ✓ High temperature stability
- ✓ Sizes 30 x 30 x 15 mm and M12

## BACKGROUND SUPPRESSION



### COLOR-INDEPENDENT DETECTION

- ✓ Large sensing range with background suppression across the whole setting range
- ✓ Operating distance independent of target color
- ✓ Glass and plastic window
- ✓ Protection degree IP67

## LASER



### HIGH-PRECISION DETECTION

- ✓ Diffuse (M18) and through-beam sensors (M12 & M18)
- ✓ Adjustable focus (diffuse sensor)
- ✓ Detection of very small objects (down to 0.1 mm)

## COLOR DISTINCTION



### FOR MINIMAL COLOR DIFFERENCES

- ✓ 3 teachable color channels with independent outputs
- ✓ Detection virtually independent of target distance
- ✓ 5 tolerance levels
- ✓ High switching frequency of up to 4 kHz

## ECONOMICAL



### MAXIMUM PRICE/PERFORMANCE RATIO

- ✓ Standard size 50 x 50 x 18 mm
- ✓ High quality at attractive prices
- ✓ Diffuse, through-beam and reflex sensors

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## SAFETY



### MAXIMUM PRICE/PERFORMANCE RATIO

- ✓ Light-curtains for hand and finger protection
- ✓ Access control barriers with 3 or more beams
- ✓ New: IP69K version available
- ✓ Performance Level PL e, according to EN ISO 13849-1
- ✓ Type 4 according to EN IEC 61496-1/2
- ✓ Automatic and manual restart mode, muting and stepping operation
- ✓ Device and mirror columns
- ✓ High quality at attractive prices

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## CAPACITIVE

### STANDARD PROGRAM



### LARGE SELECTION

- ✓ Detection of various materials and objects
- ✓ Level monitoring, even through non-metallic dividing walls
- ✓ Adjustable operating distance

### LABEL SENSORS



### EVEN FOR TRANSPARENT LABELS

- ✓ Detection of transparent labels, adhesive joints, tears and double sheets of paper
- ✓ Separable metal housing
- ✓ Easy adjustment using teach-in

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## ULTRASONIC



### IDEAL FOR TRANSPARENT OBJECTS

- ✓ Detection independent of target's color, shape, material and surface structure
- ✓ Adjustment by means of teach-in, potentiometer or interface
- ✓ Switching and analog outputs

# 6

## RFID

### (ALMOST) INDESTRUCTIBLE



#### FOR DIFFICULT OPERATING CONDITIONS

- ✓ 125 kHz technology
- ✓ Mechanically and chemically resistant all-metal tags and read/write modules
- ✓ Embeddable tags (even in metal)
- ✓ For operating temperatures up to 125 °C

### 13.56 MHZ NETWORKED



#### USER-FRIENDLY RFID SYSTEM

- ✓ 13.56 MHz technology
- ✓ ISO 15693 compatible
- ✓ Read/write modules linked to RS485
- ✓ Net management via USB possible

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## CONNECTIVITY



#### EFFECTIVE WIRING

- ✓ Thermoplastic and metal distribution boxes
- ✓ Large range of connecting cables

# 8

## ACCESSORIES



#### ACCESSORIES

- ✓ Sensor tester
- ✓ Sensor mounting clamp
- ✓ Power supply unit & amplifiers



## ALL OVER THE WORLD

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### EUROPE

Austria  
Belgium  
Croatia  
Czech Republic  
Denmark  
Estonia  
Finland  
France  
Germany  
Great Britain  
Greece  
Hungary  
Ireland  
Italy  
Luxembourg  
Netherlands  
Norway  
Poland  
Portugal  
Romania  
Russian Federation  
Slovakia  
Slovenia

Spain  
Sweden  
Switzerland  
Turkey

### AFRICA

Morocco  
South Africa

### THE AMERICAS

Argentina  
Brazil  
Canada  
Chile  
Colombia  
Mexico  
United States  
Venezuela

### ASIA

China  
India  
Indonesia

Japan  
Korea  
Malaysia  
Pakistan  
Philippines  
Singapore  
Taiwan  
Thailand  
Vietnam

### AUSTRALASIA

Australia  
New Zealand

### MIDDLE EAST

Israel  
Syria  
United Arab Emirates

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