

# DISCOVER OUR NEW MINIATURIZED PROXIMITY SENSORS RANGE!



## Highlights

- ASIC inside
- Extremely reduced dimension
- Cable or M8 plug version
- Stainless steel housing, high torque tightening for a safe installation
- IP67 protection degree
- Switching frequency up to 7 kHz
- Single or double sensing distance
- CE certified models
- Completely filled with resin > high resistance against vibrations and low maintenance costs

**100% MADE IN ITALY**

**HIGH-TECHNOLOGY**

**QUALITY**

**CUSTOMIZATION**

**LEAN MANUFACTURING**

**INNOVATION**



## Why M.D.?

Starting from 1971 M.D. Micro Detectors S.p.A. designed and manufactured a **wide range of industrial sensors**.

M.D. Micro Detectors is a Lean Company with a Great Tradition, fast in manufacturing and in developing products and customizations, with an outstanding level of service.

## The advantages to be *mini*

- The new miniaturized Proxy Sensors are in both cylindrical and cubic housing.
- Thanks to the small dimensions and long detecting distances, they can be used in all the application where space is a premium.
- The high switching frequency (**up to 7 kHz**) allows a precise and highly repeatable small and fast objects detection.



## High Technology

### Main Characteristics:

- digital output: NPN or PNP
- output state: NO or NC
- miniaturized housing in **AISI303** stainless steel
- output state **LED** on all models
- LASER label etched
- **ASIC** inside > **high stability, complete control, precise detection, long-lasting**
- completely **filled with resin** > **high resistance, low maintenance costs**

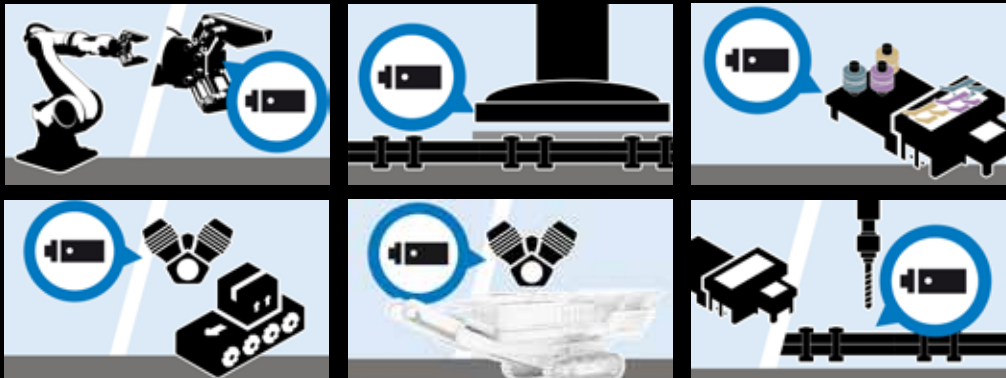


# Miniaturized Inductive sensors available in all sizes

Thanks to **44 years of sensors design and manufacturing experience**, today M.D. is one of the few companies able to develop directly a complete range of miniaturized inductive sensors.



## The right sensor for every application



- Industrial robots
- Metal working
- Textile Industry
- Packaging Industry
- Manufacturing

## Certified Quality

**100 %  
TESTED**





The word **Quality** for M.D. Micro Detectors can be translated into:

- a high degree of automation and continuous controls during all the production processes;
- production tests on 100% of the sensors manufactured;
- 2 years warranty on every product;
- **IP67 protection degree**

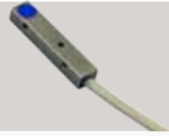

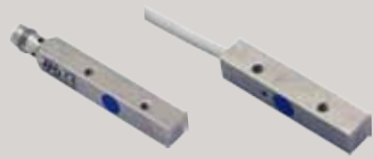



# A complete Portfolio

## Cylindrical models

Model	Housing	Working Distance	
AC1/**-1*	Ø4 (standard)	0.8 mm	
AC1/**-3*	Ø4 (long distance)	1.5 mm	
AD1/**-1*	M5 (standard)	0.8 mm	
AD1/**-3*	M5 (long distance)	1.5 mm	
AHS/**-1*	Ø6.5 (standard)	1.5 mm	
AHS/**-3*	Ø6.5 (long distance)	2 mm	
AES/**-1*	M8 (standard)	1.5 mm	
AES/**-3*	M8 (long distance)	2 mm	

## Cubic models

Series	Housing	Working Distance	
IL5	5 x 25 x 5 mm (cable)	0.8 mm (standard)	
		1.5 mm (long distance)	
IL8	8 x 40 x 8 mm (cable)	1.5 mm (standard)	
	8 x 59 x 8 mm (M8 plug)	2.0 mm (long distance)	
		2.5 mm (extended distance)	
IL9	8 x 40 x 8 mm (cable)	1.5 mm (standard)	
	8 x 59 x 8 mm (M8 plug)	2.0 mm (long distance)	
		2.5 mm (extended distance)	
IL1	10 x 28 x 16 mm (cable)	3 mm (shielded)	
	10 x 37 x 16 mm (M8 plug)	6 mm (unshielded)	