



# Micro Detectors

Italian Sensors Technology



Ø 20 cylindrical Capacitive  
Sensor CE  
short range version



Proximity Sensors  
Catalogue

Cod. CAT3ECE1257041 - Datasheet - CE short range - English - Ed.01/2013





Products

capacitive  
cylindrical

## Series **CE**

capacitive  
cylindrical



[www.microdetectors.com](http://www.microdetectors.com)

### market sectors and applications

- plastic industry
- chemical & petrochemical industry
- wood industry
- photovoltaic installations
- glass & ceramic industry
- packaging industry
- logistic & automatic storage systems
- automatic breeding systems
- automatic car washing systems
- pools & whirlpool baths
- vending machines

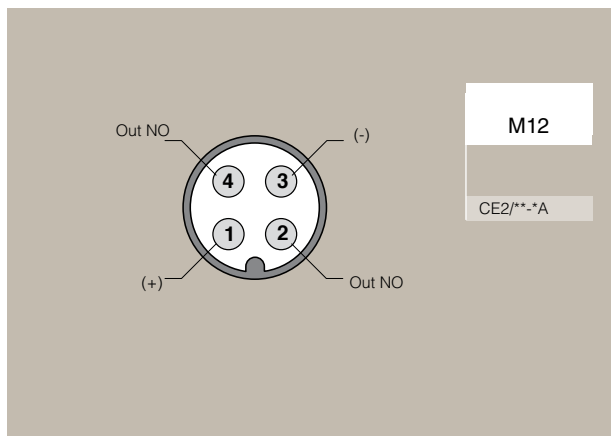
**CE 2 / 0 P - 1 A PR**

<b>CE</b>	Capacitive proximity sensor
<b>2</b>	With self-monitoring
<b>0</b>	NO + NC complementary output
<b>P</b>	PNP logic output
<b>1</b>	Standard shielded 7 mm
<b>A</b>	Axial cable exit
<b>PR</b>	short range

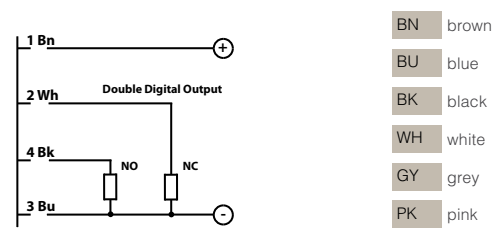
modelli disponibili

diameter	installation	distance	connection	self-monitoring	PNP - NO+NC
Ø 20	shielded	7 mm	cable	yes	CE2/0P-1APR

Electrical diagrams of the connections



wiring diagram PNP



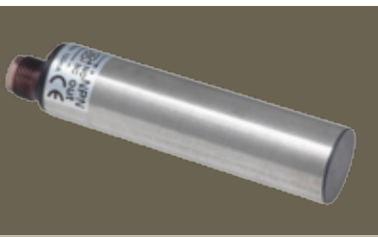



Products

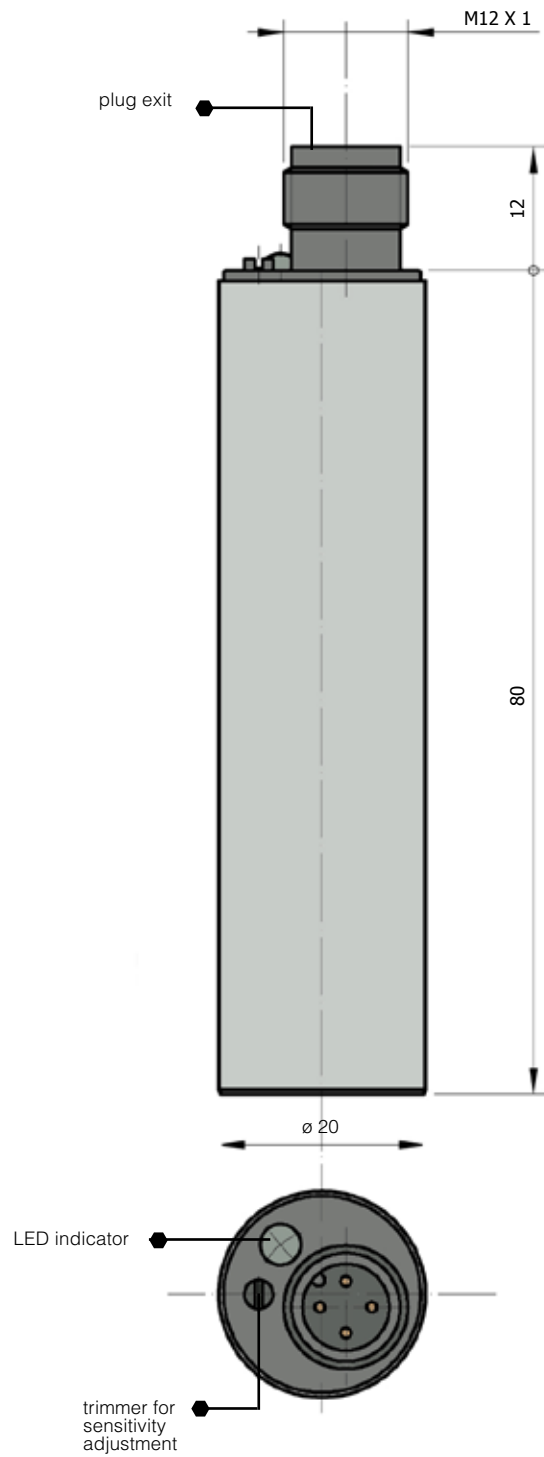
capacitive  
cylindrical

## technical specifications

according to IEC EN 60947-5-2 and IEC EN 60947-5-7

	
<b>models</b>	<b>CE2/0*-1*</b>
	
nominal sensing distance $S_n$	7 mm
differential travel H	2...15%
repeat accuracy	5%
rated operational voltage $U_e$	10 ... 30 Vdc
max ripple content	≤ 15 %
no-Load supply current	17 mA
load current	≤ 100 mA
leakage current	≤ 1 μ mA
output voltage drop $U_d$	1.5 V max. $I_L = 100$ mA
output type	PNP - NO + NC open collector
switching frequency f	300 Hz
self-monitoring frequency	period 4-8 ms (6,2 ms nominal), duration 150-300 μs (220 μs nominal)
time delay before availability	≤ 100 ms
supply electrical protections	polarity reversal, transient
output electrical protections	short circuit (autoreset)
sensitivity adjustment	trimmer
storage temperature	-
operating temperature	-25 ... +70° C
thermal drift	20 % $S_r$
EMC compatibility	following the provisions of directives CE 2004/108/CE according to EN 60947-5-2
protection degree	IP65
LED indicators	yellow (NO output energized)
housing material	stainless steel
active head material	LCP
weight (approx.)	80 g (M12) / 200 g (cable)

CE\*/\*\*-\*A





Catalogue  
Proximity Sensors



CAT3ECE1257041 DATASHEET CE SHORT RANGE ENGLISH ED.01/2013

All information written in this catalogue are subject to modifications without notice.  
They don't represent any obligation for M.D. Micro Detectors

Any variation will be implemented in this catalogue and its electronic version, available on the corresponding page of M.D. Micro Detectors website:  
[www.microdetectors.com](http://www.microdetectors.com)