



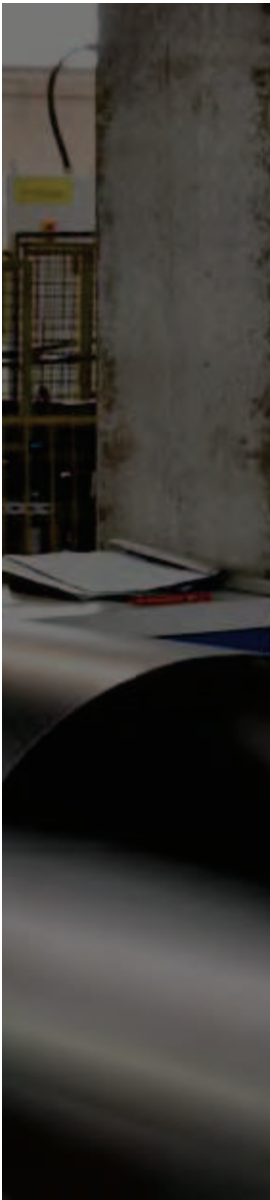
Micro Detectors

Italian Sensors Technology



Catalogue
short form

Edition 01/2013



Proximity Sensors

Inductive Sensors

- Miniaturized
- Standard
- DECOU[®] NPN/PNP - NO/NC
- IP68
- AC
- IP69K
- Cubic
- Extended temperature range
- Analogue

Capacitive Sensors





- Cylindrical
- Cubic



inductive







Miniaturized

		PA	PB	AC1	AD1
dimensions		ø 3 mm	M4	ø 4 mm	M5
standard shielded		0.6 mm	0.6 mm	0.8 mm	0.8 mm
standard unshielded		—	—	—	—
long distance shielded		1 mm	1 mm	1.5 mm	1.5 mm
long distance unshielded		—	—	—	—
standard housing		—	—	—	—
short housing		—	—	—	—
miniaturized housing		•	•	•	•
power supply	Vdc	•	•	•	•
	Vac	—	—	—	—
output type	NPN - NO	•	•	•	•
	NPN - NC	•	•	•	•
	PNP - NO	•	•	•	•
	PNP - NC	•	•	•	•
	PNP - NO + NC	—	—	—	—
	NPN - NO + NC	—	—	—	—
	DECOUT®	—	—	—	—
	SCR	—	—	—	—
	0...10 V	—	—	—	—
4...20 mA	—	—	—	—	
temperature range		-25°C...+70°C	-25°C...+70°C	-25°C...+70°C	-25°C...+70°C
protection degree		IP67	IP67	IP67	IP67
housing material		stainless steel	stainless steel	stainless steel	stainless steel
active head material		PBT	PBT	PBT	PBT
output	cable	•	•	•	•
	M8 plug	—	—	•	•
	M12 plug	—	—	—	—
ATEX		—	—	—	—
other certifications		CE	CE	UL US LISTED CE	UL US LISTED CE

		Improved performances	
AES	AHS	Improved performances	Improved performances
			
∅ 6.5 mm	M8		
1.5 mm	1.5 mm		
—	—		
2 mm	2 mm		
—	—		
—	—		
—	—		
•	•		
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•	•		
—	—		
—	—		
—	—		
—	—		
—	—		
-25°C...+70°C	-25°C...+70°C		
IP67	IP67		
stainless steel	stainless steel		
PBT	PBT		
•	•		
•	•		
—	—		
—	—		
			



		inductive			
		Standard			
		AH	AE	AM	AK
dimensions		ø 6.5 mm	M8	M12	M18
standard shielded		1.5 mm	1.5 mm	2 mm	5 mm
standard unshielded		2.5 mm	2.5 mm	4 mm	8 mm
long distance shielded		2 mm	2 mm	4 mm	8 mm
long distance unshielded		4 mm	4 mm	8 mm	12 mm
standard housing		•	•	•	•
short housing		•	•	•	—
miniaturized housing		—	—	—	—
power supply	Vdc	•	•	•	•
	Vac	—	—	—	—
output type	NPN - NO	•	•	•	•
	NPN - NC	•	•	•	•
	PNP - NO	•	•	•	•
	PNP - NC	•	•	•	•
	PNP - NO + NC	—	—	—	—
	NPN - NO + NC	—	—	—	—
	DECOUT®	—	—	—	—
	SCR	—	—	—	—
	0...10 V	—	—	—	—
4...20 mA	—	—	—	—	
temperature range		-25°C...+70°C	-25°C...+70°C	-25°C...+70°C	-25°C...+70°C
protection degree		IP67	IP67	IP67	IP67
housing material		stainless steel	nickel plated brass	nickel plated brass	nickel plated brass
active head material		PBT	PBT	PBT	PBT
output	cable	•	•	•	•
	M8 plug	•	•	•	—
	M12 plug	•	•	•	•
ATEX		II3GD	II3GD	II3GD	II3GD
other certifications					







DECOUT [®] NPN/PNP - NO/NC			
AT	PM3	PK3	
			
M30	M12	M18	
10 mm	2 mm	5 mm	
15 mm	4 mm	8 mm	
15 mm	—	—	
20 mm	—	—	
•	•	•	
—	—	—	
—	—	—	
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—	—	—	
—	—	—	
-25°C...+70°C	-25°C...+70°C	-25°C...+70°C	
IP67	IP67	IP67	
nickel plated brass	nickel plated brass	nickel plated brass	
PBT	PBT	PBT	
•	•	•	
—	•	—	
•	•	•	
II3GD	II3GD	II3GD	
			



inductive

IP68

		PMS	PMW	PKS	PKW
dimensions		M12	M12	M18	M18
standard shielded		2 mm	2 mm	5 mm	5 mm
standard unshielded		4 mm	4 mm	8 mm	8 mm
long distance shielded		—	—	—	—
long distance unshielded		—	—	—	—
standard housing		●	●	●	●
short housing		—	—	—	—
miniaturized housing		—	—	—	—
power supply	Vdc	●	●	●	●
	Vac	—	—	—	—
output type	NPN - NO	—	—	—	—
	NPN - NC	—	—	—	—
	PNP - NO	—	—	—	—
	PNP - NC	—	—	—	—
	PNP - NO + NC	●	●	●	●
	NPN - NO + NC	●	●	●	●
	DECOUT®	—	—	—	—
	SCR	—	—	—	—
	0...10 V	—	—	—	—
	4...20 mA	—	—	—	—
temperature range		-25°C...+70°C	-25°C...+70°C	-25°C...+70°C	-25°C...+70°C
protection degree		IP67/IP68	IP67/IP68	IP67/IP68	IP67/IP68
housing material		nickel plated brass	stainless steel	nickel plated brass	stainless steel
active head material		PPS	PPS	PSU	PSU
output	cable	—	—	—	—
	M8 plug	—	—	—	—
	M12 plug	●	●	●	●
ATEX		II3GD	II3GD	II3GD	II3GD
other certifications		CE	CE	CE	CE

AC		
VM	VK	VT
		
M12	M18	M30
2 mm	5 mm	10 mm
4 mm	8 mm	15 mm
—	—	—
—	—	—
•	•	•
—	—	—
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•	•	•
—	—	—
—	—	—
-25°C...+70°C	-25°C...+70°C	-25°C...+70°C
IP67	IP67	IP67
nickel plated brass	nickel plated brass	nickel plated brass
PBT	PBT	PBT
•	•	•
—	—	—
•	•	•
—	—	—
		










40/41



inductive

IP69K

		PFM	PFK	PFM-26	PFK-26
					
dimensions		M12	M18	M12	M18
standard shielded		2 mm	5 mm	2 mm	5 mm
standard unshielded		4 mm	8 mm	4 mm	8 mm
long distance shielded		4 mm	8 mm	—	—
long distance unshielded		8 mm	12 mm	—	—
standard housing		●	●	●	●
short housing		—	—	—	—
miniaturized housing		—	—	—	—
power supply	Vdc	●	●	●	●
	Vac	—	—	—	—
output type	NPN - NO	●	●	—	—
	NPN - NC	—	—	—	—
	PNP - NO	●	●	—	—
	PNP - NC	—	—	—	—
	PNP - NO + NC	●	●	●	●
	NPN - NO + NC	●	●	●	●
	DECOUT®	—	—	—	—
	SCR	—	—	—	—
	0...10 V	—	—	—	—
	4...20 mA	—	—	—	—
temperature range		-40°C...+80°C	-40°C...+80°C	-25°C...+110°C	-25°C...+110°C
protection degree		IP68/IP69K	IP68/IP69K	IP68/IP69K	IP68/IP69K
housing material		stainless steel AISI316L	stainless steel AISI316L	stainless steel AISI316L	stainless steel AISI316L
active head material		PPS	PPS	PPS	PPS
output	cable	—	—	—	—
	M8 plug	—	—	—	—
	M12 plug	●	●	●	●
ATEX		II3GD	II3GD	—	—
other certifications					

Cubic		Extended temperature range	
PP	IL	ETM	ETK
			
5x5x25 mm	10x16x28 mm	M12	M18
0,8 mm	—	2 mm	5 mm
—	—	4 mm	8 mm
1,5 mm	3 mm	—	—
—	6 mm	—	—
—	•	•	•
—	—	—	—
•	—	—	—
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—	—	—	—
—	—	—	—
—	—	—	—
-25°C...+70°C	-25°C...+70°C	-25°C...+110°C	-25°C...+110°C
IP67	IP67	IP68	IP68
stainless steel	PA	stainless steel	stainless steel
PBT	PA	PPS	PSU
•	•	—	—
•	•	—	—
—	—	•	•
—	—	—	—
CE	CE	CE	CE


inductive
Analogue
capacitive
Cylindrical
AE_D
AM_D
AK_D
C18

New series



dimensions		M8	M12	M18	M18
standard shielded		—	—	—	3...8 mm
standard unshielded		—	—	—	3...12 mm
long distance shielded		quasi embeddable 4 mm	quasi embeddable 6 mm	quasi embeddable 10 mm	—
long distance unshielded		—	—	—	—
standard housing		●	●	—	●
short housing		—	—	●	—
miniaturized housing		—	—	—	—
supply voltage	Vdc	●	●	●	●
	Vac	—	—	—	●
output type	NPN - NO	—	—	—	—
	NPN - NC	—	—	—	—
	PNP - NO	—	—	—	—
	PNP - NC	—	—	—	—
	PNP - NO + NC	—	—	—	●
	NPN - NO + NC	—	—	—	●
	DECOUT®	—	—	—	—
	SCR	—	—	—	●
	0...10 V	●	●	●	—
4...20 mA	—	●	●	—	
temperature range		-25°C...+70°C	-25°C...+70°C	-25°C...+70°C	-25°C...+80°C
protection degree		IP67	IP67	IP67	IP67
housing material		plated brass	plated brass	plated brass	PE
active head material		PBT	PBT	PBT	PE
output	cable	●	●	●	●
	M8 plug	●	—	—	—
	M12 plug	—	●	●	●
ATEX		—	—	—	—
other certifications		CE	CE	CE	UL US LISTED CE