AD series

M5 cylindrical
miniaturized inductive sensors

features

- **Extremely reduced models**
- **Operating voltage: 10...30 Vcc**
- **Output current: 100 mA**
- **LED output indicator**
- **Totally protected against electrical damages**
- **Cable and M8 plug output**
- **Stainless steel housing**



web contents

- **Application notes**
- **Photos**
- **Catalogue / Manuals**

code description (*)

AD 1 / A P - 1 A 8F

series	AD	Inductive sensor M5
housing	1	Miniaturized housing
	6	Miniaturized short housing
output state	A	NO output state
	C	NC output state
output logic	N	NPN logic output
	P	PNP logic output
distance	1	Standard distance shielded 0,8 mm
	3	Long distance shielded 1,5 mm
connect.	A	Cable exit
	F	M8 connector exit
special models	8F	Models with cable in PUR

Models with plug or cable exit in PUR ⟶ certification c UL us
Models with cable exit in PVC ⟶ certification UL

(*) ATEX models available, contact our Sales Dept. for further information.

available models

model	installation	sensing	plug	distance (mm)	PNP/NO	NPN/NO	PNP/NC	NPN/NC
M5	shielded	standard	cable	0,8	AD1/AP-1A	AD1/AN-1A	AD1/CP-1A	AD1/CN-1A
					AD6/AP-1A	AD6/AN-1A	AD6/CP-1A	AD6/CN-1A
			M8		AD1/AP-1F	AD1/AN-1F	AD1/CP-1F	AD1/CN-1F
		long distance	cable	1,5	AD1/AP-3A	AD1/AN-3A	AD1/CP-3A	AD1/CN-3A
					AD6/AP-3A	AD6/AN-3A	AD6/CP-3A	AD6/CN-3A
			M8		AD1/AP-3F	AD1/AN-3F	AD1/CP-3F	AD1/CN-3F

MEDITECNA
Instrumentación | Proyectos | Servicios

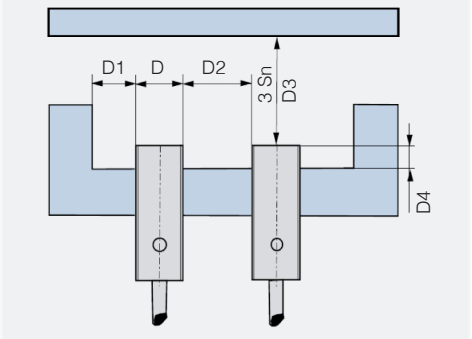
technical specification

	AD*/**-1*	AD*/**-3*
		
nominal sensing distance Sn	0.8 mm	1.5 mm
operating distance	0...0.65 mm	0...1.21 mm
hysteresis	1...20%	
standard target	5 x 5 mm	
repeatibility	5% @UB=20...30 V; Ta = 23°C ±5°C	
operating voltage	10...30 Vdc	
ripple	≤ 10%	
output type	NPN or PNP - NO or NC	
output current	≤ 100 mA	
output voltage drop	≤ 1.5 V @ 100mA	
no-load supply current	≤ 10 mA	
leakage current	≤ 10 µA	
switching frequency	5 kHz	
power on delay	≤ 50 ms	
temperature range	-25°C...+70°C	
temperature drift	≤ 10%	
power supply protections	polarity reversal	
output protection	short circut (auto reset), overvoltage pulses	
EMC	in conformity with the EMC Directive according to IEC 60947-5-2	
shock and vibration	IEC 60947-5-2	
protection degree	IP67	
housing material	stainless steel AISI 303	
active head material	PBT	
reduction factor	see table	
LEDs	on (yellow LED)	
weight	30 g cable / 4g M8 connector	

correction factors

model	FE 360	copper	aluminium	brass	stainless steel
AD*/**-1*	1	0.32 ± 10%	0.26 ± 10%	0.35 ± 10%	0.66 ± 10%
AD*/**-3*		0.33 ± 10%	0.27 ± 10%	0.34 ± 10%	

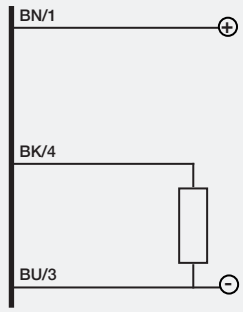
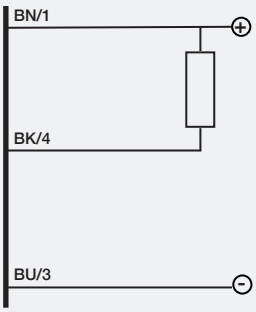
installation



model	D4	D1	D2	D3
AD*/**-1*	≥ 0 mm (1)	≥ 5 mm	≥ 5 mm	≥ 2.4 mm
AD*/**-3*	≥ 1 mm (2)		≥ 10 mm	≥ 4.5 mm

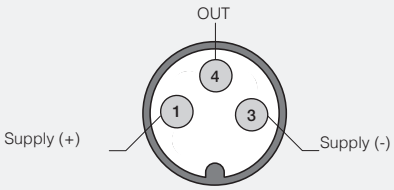
(1) ≥ 1 mm without ferro-magnetic material
(2) ≥ 2 mm without ferro-magnetic material

electrical diagrams of connections

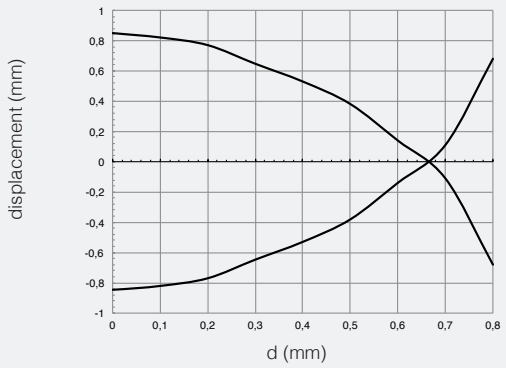
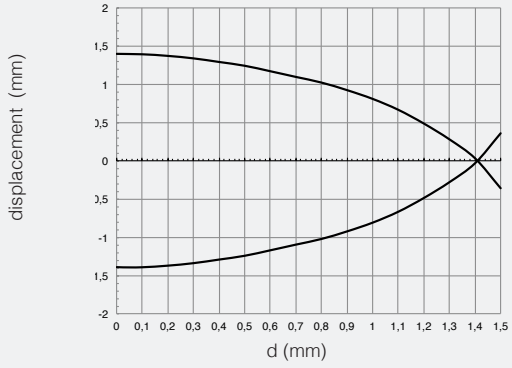
PNP	NPN
	

BN	brown
BU	blue
BK	black
WH	white

plug

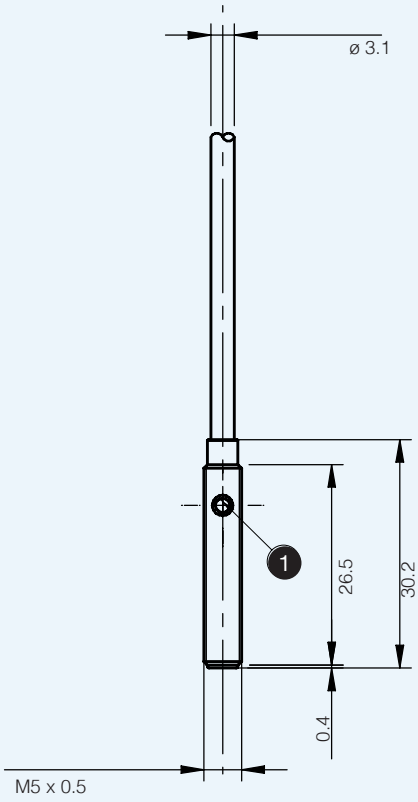
M8


response diagram

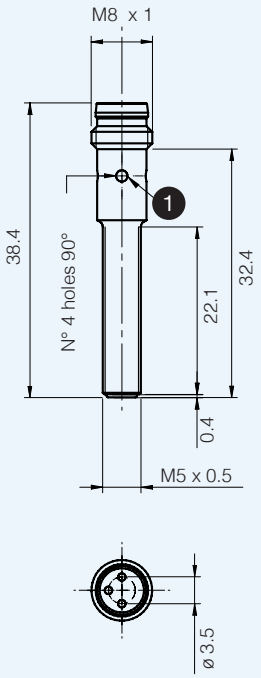
AD*/**-1* parallel displacement	AD*/**-3* parallel displacement
	

dimensions (mm)

AD1/**-*A

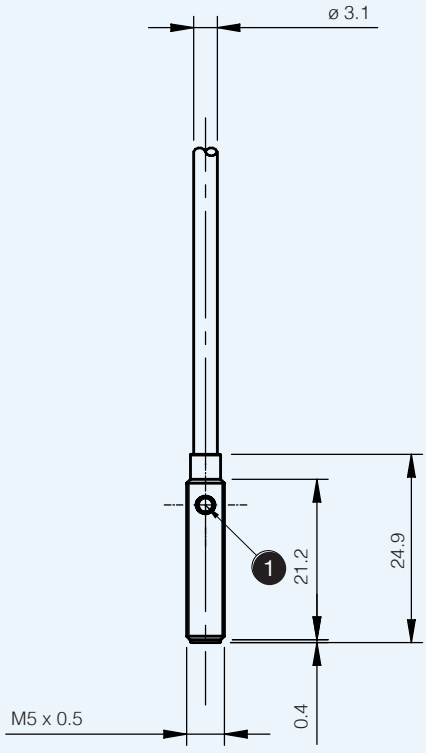


AD1/**-*F



1 LED

AD6/**-*A



1 LED

dimensions (mm)

accessories included in all models

metallic nut (2 x)

