AA series

Ø 3 cylindrical miniaturized inductive sensors

features

- **Complete range of cylindrical ultraminiaturized inductive sensors Ø 3**
- **IP67 protection degree**



web contents

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code description

AA 1 / A P - 1 A

series	AA	Ø 3 inductive sensor
	1	Miniaturized 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 model 0,6 mm
	3	Long distance shielded 1 mm
connect.	A	2 m PUR cable exit

available models

model	installation	sensing	plug	distance (mm)	PNP/NO	NPN/NO	PNP/NC	NPN/NC
Ø 3	shielded	standard	cable	0.6 mm	AA1/AP-1A	AA1/AN-1A	AA1/CP-1A	AA1/CN-1A
		long distance		1 mm	AA1/AP-3A	AA1/AN-3A	AA1/CP-3A	AA1/CN-3A

MEDITECNA
Instrumentación | Proyectos | Servicios

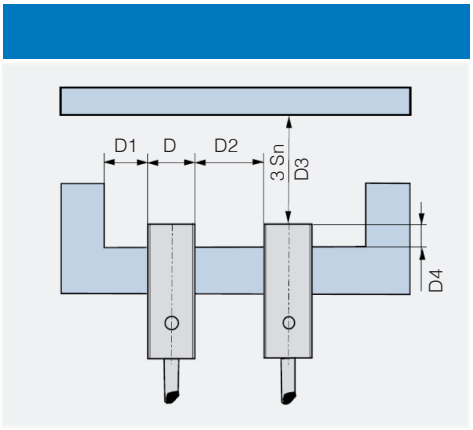
technical specification

	AA*/**-1*	AA*/**-3*
nominal sensing distance Sn	0.6 mm	1 mm
operating distance	0...0.48 mm	0 ...0.81 mm
hysteresis	1...20%	
standard target	3x3 mm FE360	
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	3 kHz	3.5 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)	
connection	2m PUR cable	

correction factors

model	FE 360	copper	aluminium	brass	stainless steel
AA1/**-**	1	0.32 ± 10%	0.24 ± 10%	0.39 ± 10%	0.57 ± 10%
AA1/**-3*	1	0.33 ± 10%	0.29 ± 10%	0.35 ± 10%	0.71 ± 10%

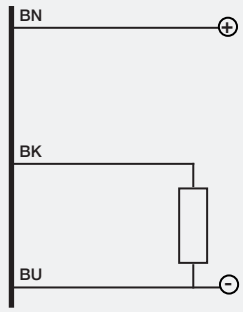
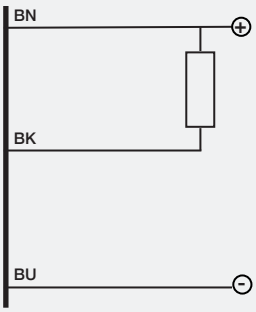
installation



model	D4	D1	D2	D3
AA1/**-1*	≥ 0 mm (1)	≥ 2 mm	≥ 3 mm	≥ 1.8 mm
AA1/**-3*	≥ 2.5 mm (2)	≥ 2 mm	≥ 3 mm	≥ 3 mm

(1) ≥ 3 mm without ferro-magnetic material
(2) ≥ 3 mm without ferro-magnetic material

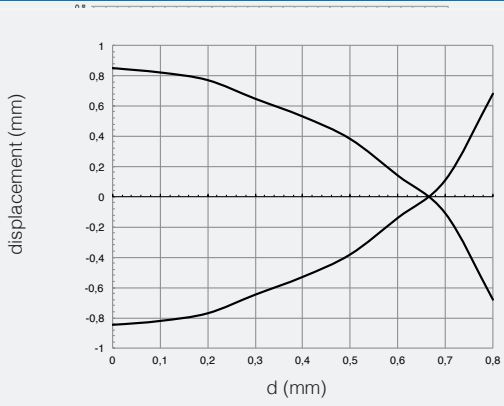
electrical diagrams of connections

PNP	NPN
	

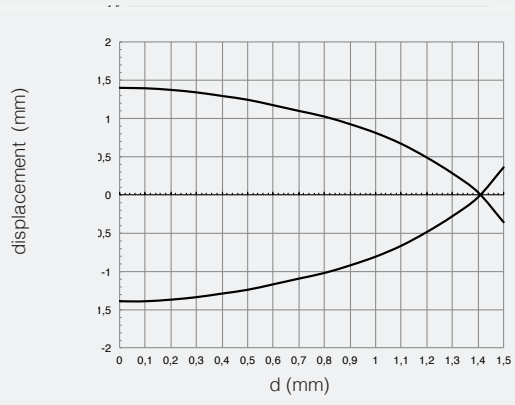
BN	brown
BU	blue
BK	black
WH	white

response diagram

AA1/-1* parallel displacement**



AA1/-3* parallel displacement**



dimensions (mm)

AA*/**-**

