#### features

- Complete range of cylindrical ultraminiaturized inductive sensors M4
- IP67 protection degree



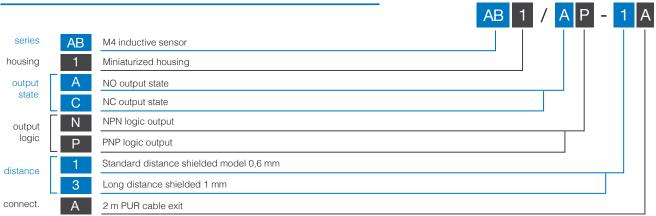




- Application notes
- Photos
- Catalogue / Manuals



### code description



#### available models

model	installation	sensing	plug	distance (mm)	PNP/NO	NPN/NO	PNP/NC	NPN/NC
M4	shielded	standard	cable	0.6 mm	AB1/AP-1A	AB1/AN-1A	AB1/CP-1A	AB1/CN-1A
		long distance		1 mm	AB1/AP-3A	AB1/AN-3A	AB1/CP-3A	AB1/CN-3A

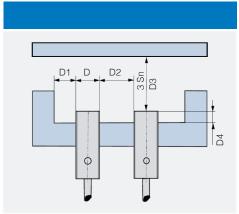


	AB*/**-1*	AB*/**-3*			
	4.00	423			
nominal sensing distance Sn	0,6 mm	1 mm			
operating distance	00,48 mm	00.81 mm			
hysteresis	120%				
standard target	4x4 mm FE360				
repeatibility	5% @UB=2030 V; Ta = 23°C ±5°C				
operating voltage	1030 Vdc				
ripple	≤ 10%				
output type	NPN or PNP - NO or NC				
output current	≤ 100 mA				
output voltage drop	≤ 1.5 V @ 100mA				
no-load supply current	≤ 10 mA				
leakage current	≤ 10	μΑ			
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 r	eversal			
output protection	short circut (auto reset), overvoltage pulses				
EMC	in conformity with the EMC Direct	ive 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
AB1/**-1*	1	0.23 ± 10%	0.26 ± 10%	0.31 ± 10%	0.52 ± 10%
AB1/**-3*	1	0.30 ± 10%	0.22 ± 10%	0.32 ± 10%	0.57 ± 10%

### installation



model	D4	D1	D2	D3
AC1/**-1*	≥ 0 mm <sup>(1)</sup>	≥ 2 mm	≥ 4 mm	≥ 1.8 mm
AC1/**-3*	≥ 0mm <sup>(2)</sup>	≥ 2 mm	≥ 4 mm	≥ 3 mm

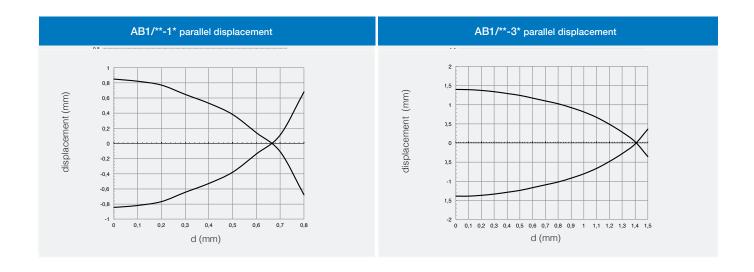
 $<sup>^{(1)} \</sup>geq 2.5$  mm without ferro-magnetic material  $^{(2)} \geq 2.5$  mm without ferro-magnetic material

BN brown BU

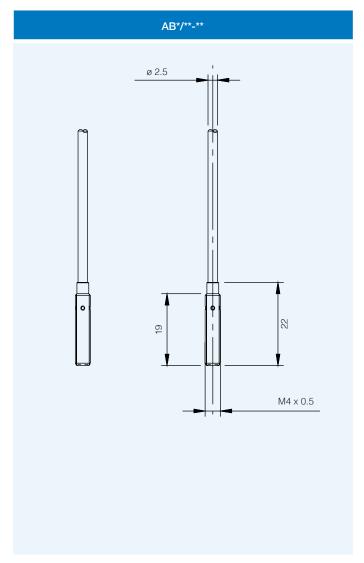
WH white

black

# response diagram







# dimensions (mm)

accessories included in all models

