





	AK6/**-1*	AK6/**-2*	AK6/**-3*	AK6/**-4*
				
nominal sensing distance	5 mm	8 mm	8 mm	12 mm
operating distance	0...4 mm	0...6.5 mm	0...6.5 mm	0...9.7 mm
hysteresis	0...20%			
standard target	18x18 mm FE 360	24x24 mm FE 360		36x36 mm FE 360
repeatability	5% Ub 20-30V Ta=23°C±5°C			
operating voltage	10...30 Vdc			
ripple	≤ 10 %			
output current	≤ 400 mA			
output voltage drop	≤ 1.5 V @ 400 mA			
no-load current	≤ 10 mA			
logic output	PNP or NPN			
output state	NO or NO+NC			
leakage current	10 µA			
switching frequency	2,5 KHz	2 KHz	2,5 KHz	2 KHz
power on delay	≤ 50 ms			
temperature range	-25°C...+70°C			
temperature drift	≤ 10%			
short circuit protection	● (autoreset)			
induction protection	●			
voltage reversal protection	●			
EMC	in conformity with the EMC Directive, according to IEC 60947-5-2			
shocks and vibrations	IEC 60947-5-2			
protection degree	IP67			
housing material	nickelplated brass			
active head material	PBT			
LEDs	output on (yellow LED)			
connections	M12 connector, 2 m PVC cable			
tightening torque	25 Nm			

⁽¹⁾ Protection guaranteed only with plug cable well mounted

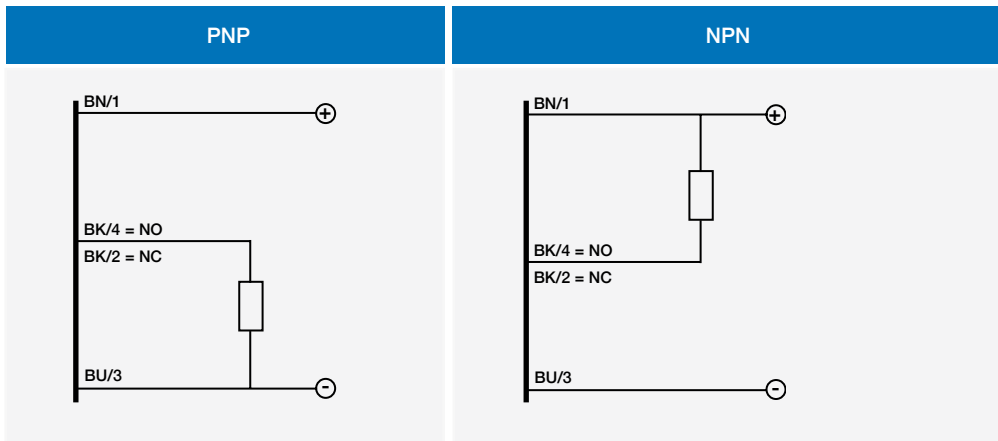
correction factors

code	steel FE 360	copper	alluminium	brass	stainless steel
AK6/00-1*	1	0.36	0.43	0.49	0.80
AK6/00-2*	1	0.43	0.38	0.75	0.31
AK6/00-3*	1	0.39	0.45	0.51	0.77
AK6/00-4*	1	0.47	0.42	0.74	0.36



electrical diagrams of connections

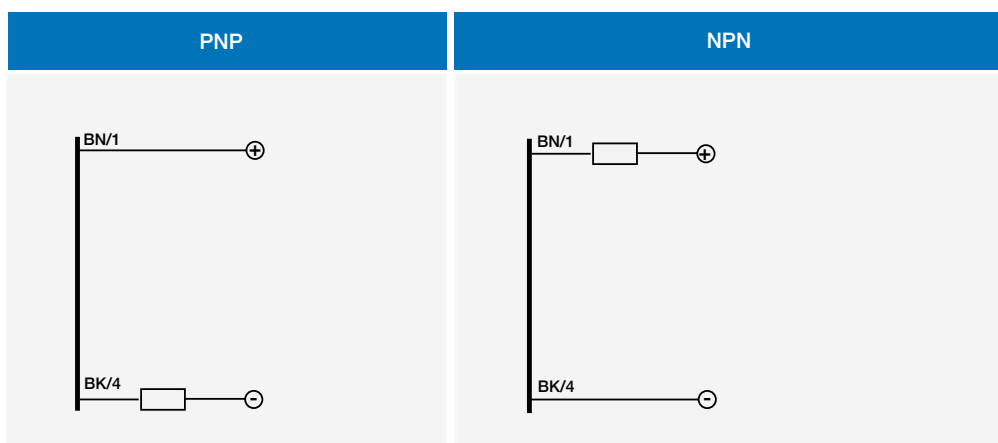
3 wires versions



- BN** brown
- BU** blue
- BK** black
- WH** white

electrical diagrams of connections

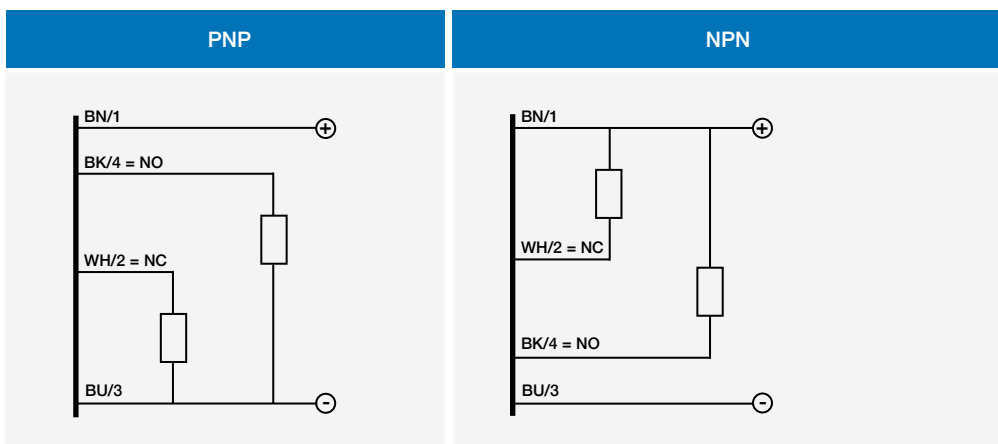
2 wires versions



- BN** brown
- BU** blue
- BK** black
- WH** white

electrical diagrams of connections

PKS-PKW complementary outputs versions



- BN** brown
- BU** blue
- BK** black
- WH** white

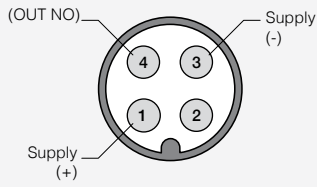


plug

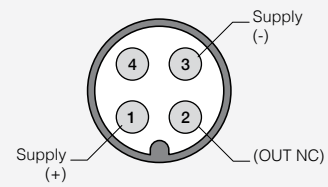
3 wires versions

M18 cylindrical

M12 - NO



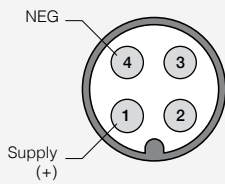
M12 - NC



plug

2 wires versions

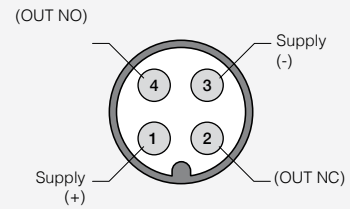
M12 - NO



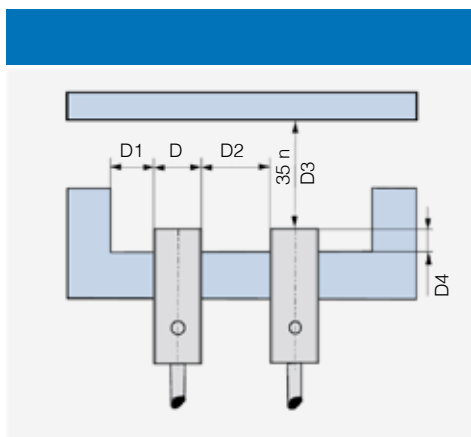
plug

versioni complementari outputs versions

M12 - NC



installation

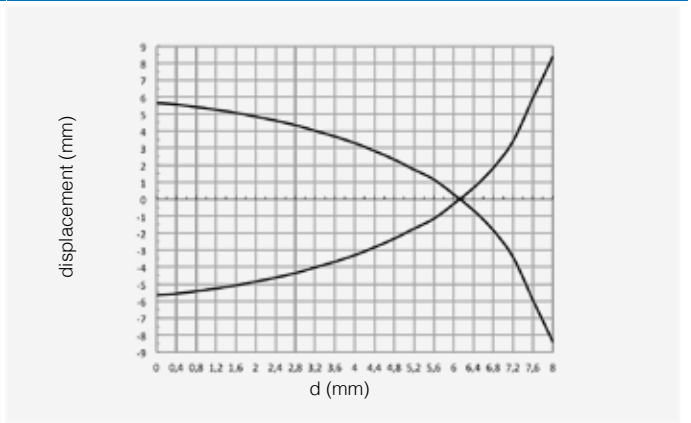
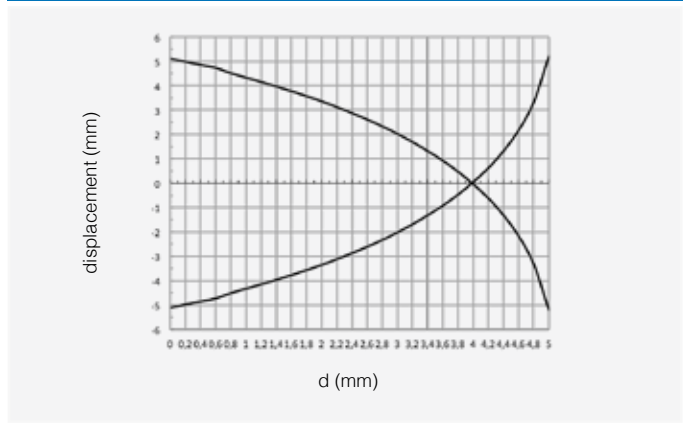


code	D4	D1	D2	D3
AK/**-1*	≥ 3.6 mm	≥ 9 mm	≥ 18 mm	≥ 15 mm
AK/**-2* -	≥ 16 mm	≥ 18 mm	≥ 36 mm	≥ 24 mm
AK1/**-3*	≥ 3.6 mm	≥ 9 mm	≥ 18 mm	≥ 24 mm
AK1/**-4*	≥ 16 mm	≥ 18 mm	≥ 36 mm	≥ 36 mm
AK6/**-1*	≥ 3.6 mm	≥ 9 mm	≥ 18 mm	≥ 15 mm
AK6/**-2*	≥ 12 mm	≥ 18 mm	≥ 36 mm	≥ 24 mm
AK6/**-3*	≥ 1.8 mm ⁽¹⁾	≥ 9 mm	≥ 18 mm	≥ 24 mm
AK6/**-4*	≥ 16 mm	≥ 18 mm	≥ 36 mm	≥ 36 mm

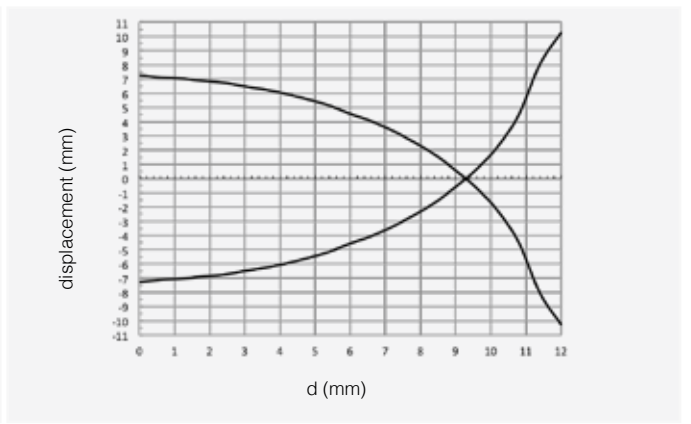
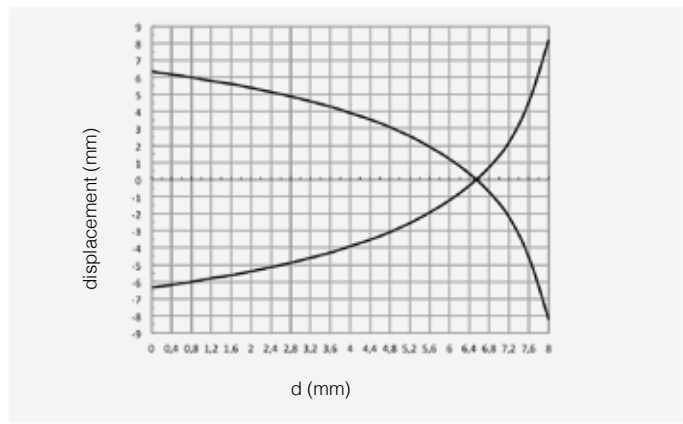
⁽¹⁾ ≥ 5.4 mm for not magnetic materials



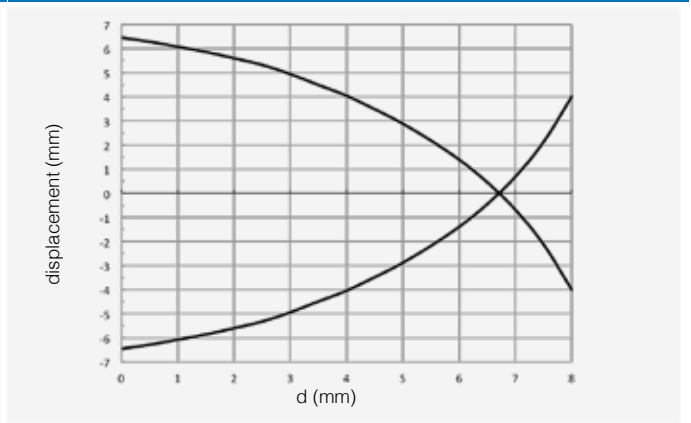
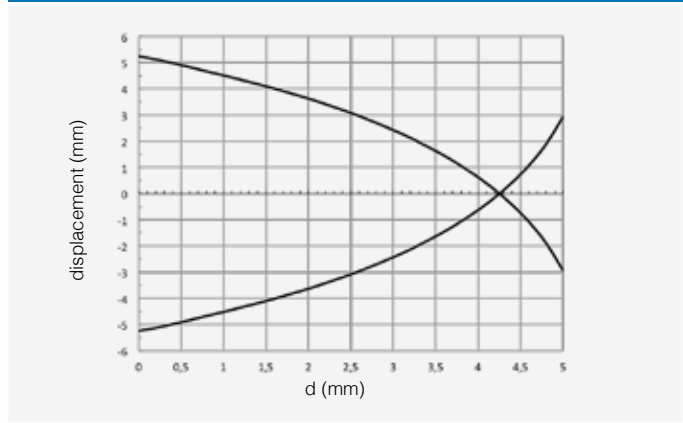
AK1/**-1* parallel displacement AK1/**-2* parallel displacement



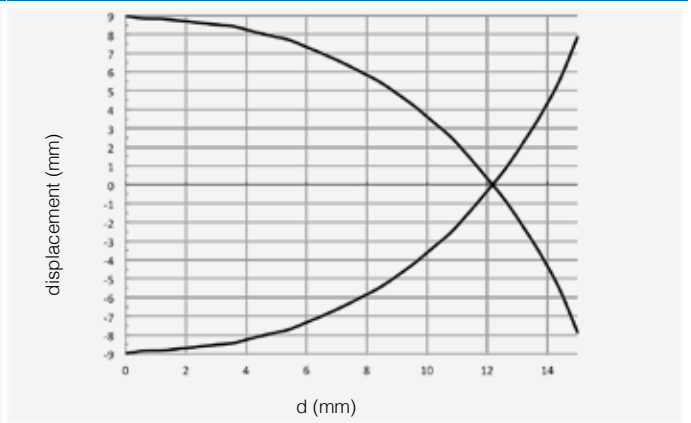
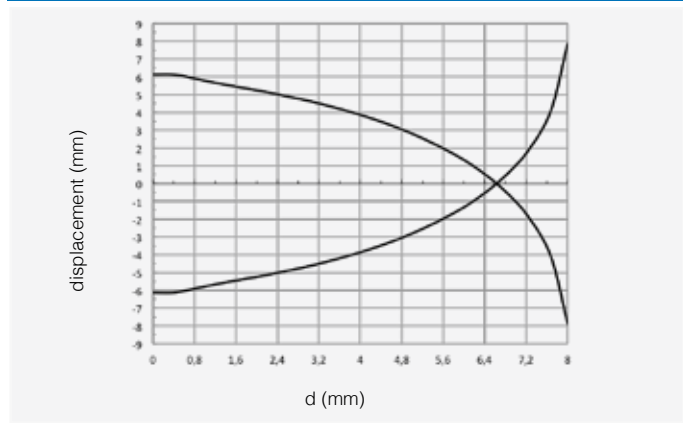
AK1/**-3* parallel displacement AK1/**-4* parallel displacement



AK6/**-1* parallel displacement AK6/**-2* parallel displacement



AK6/**-3* parallel displacement AK6/**-4* parallel displacement



dimensions (mm)

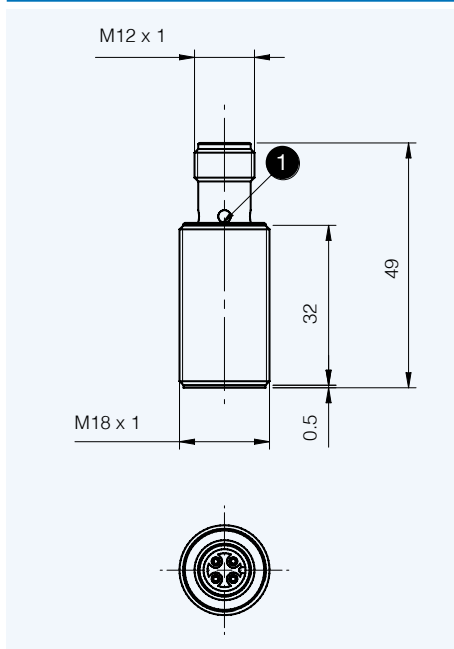
M18 cylindrical

AK1/**-1A AK1/**-3A	AK1/**-1H AK1/**-3H	AK1/**-2A AK1/**-4A
AK1/**-2C AK1/**-4C	AK1/**-2H AK1/**-4H	AK6/**-1A AK6/**-3A

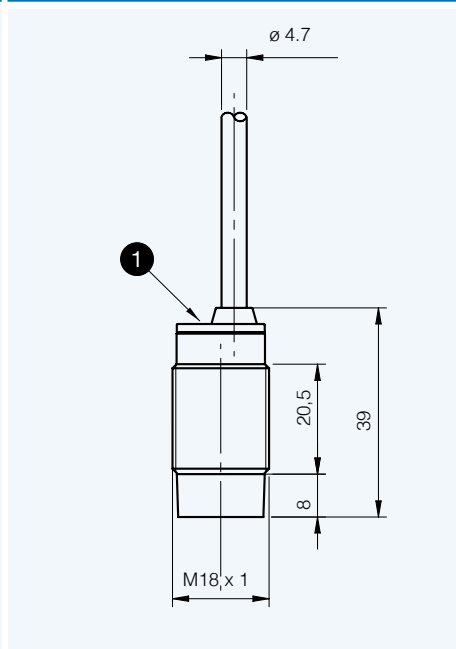
1 LED



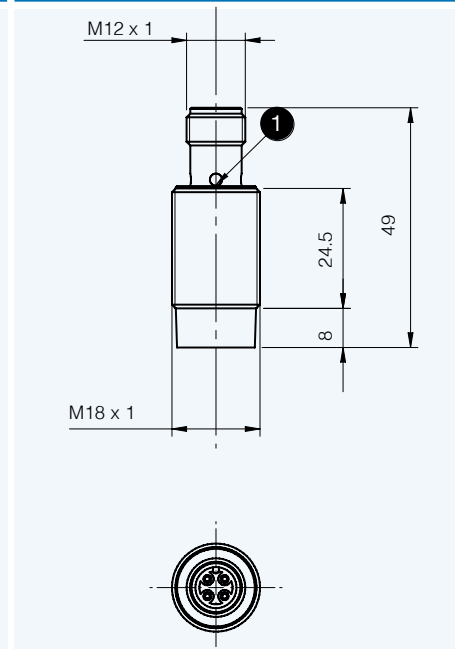
AK6/**-1H
AK6/**-3H



AK6/**-2A
AK6/**-4A



AK6/**-2H
AK6/**-4H



1 LED

dimensions (mm)

accessories included

