





- **Extremely reduced dimensions**
- Metal housing (stainless steel)
- LED status indicator 360° visible
- IP 67 protection degree
- ATEX models, cat. 3, available on request
- Complete protection against electrical damages
- Standard and long distance models
- Standard and short body housing

web contents



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







code description (*)



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



available models

standard housing

diameter (mm)	installation	distance	connection	distance	NPN/NO	NPN/NC	PNP/NO	PNP/NC
	shielded	standard	cable	1.5	AH1/AN-1A	AH1/CN-1A	AH1/AP-1A	AH1/CP-1A
			M8		AH1/AN-1F	AH1/CN-1F	AH1/AP-1F	AH1/CP-1F
			M12		AH1/AN-1H	AH1/CN-1H	AH1/AP-1H	AH1/CP-1H
	unshielded		cable	2.5	AH1/AN-2A	AH1/CN-2A	AH1/AP-2A	AH1/CP-2A
			M8		AH1/AN-2F	AH1/CN-2F	AH1/AP-2F	AH1/CP-2F
Ø 6,5			M12		AH1/AN-2H	AH1/CN-2H	AH1/AP-2H	AH1/CP-2H
0,5	shielded	long distance	cable	2	AH1/AN-3A	AH1/CN-3A	AH1/AP-3A	AH1/CP-3A
			M8		AH1/AN-3F	AH1/CN-3F	AH1/AP-3F	AH1/CP-3F
			M12		AH1/AN-3H	AH1/CN-3H	AH1/AP-3H	AH1/CP-3H
	shielded		cable	4	AH1/AN-4A	AH1/CN-4A	AH1/AP-4A	AH1/CP-4A
			M8		AH1/AN-4F	AH1/CN-4F	AH1/AP-4F	AH1/CP-4F
			M12		AH1/AN-4H	AH1/CN-4H	AH1/AP-4H	AH1/CP-4H

available models

short housing

diameter (mm)	installation	distance	connection	distance (mm)	NPN/NO	NPN/NC	PNP/NO	PNP/NC
	shielded	standard	cable	1.5	AH6/AN-1A	AH6/CN-1A	AH6/AP-1A	AH6/CP-1A
			M8		AH6/AN-1F	AH6/CN-1F	AH6/AP-1F	AH6/CP-1F
	unshielded		cable	2.5	AH6/AN-2A	AH6/CN-2A	AH6/AP-2A	AH6/CP-2A
Ø 6,5			M8		AH6/AN-2F	AH6/CN-2F	AH6/AP-2F	AH6/CP-2F
	shielded	long distance	cable	2	AH6/AN-3A	AH6/CN-3A	AH6/AP-3A	AH6/CP-3A
			M8		AH6/AN-3F	AH6/CN-3F	AH6/AP-3F	AH6/CP-3F
	unshielded		cable	4	AH6/AN-4A	AH6/CN-4A	AH6/AP-4A	AH6/CP-4A
			M8		AH6/AN-4F	AH6/CN-4F	AH6/AP-4F	AH6/CP-4F

correction factors

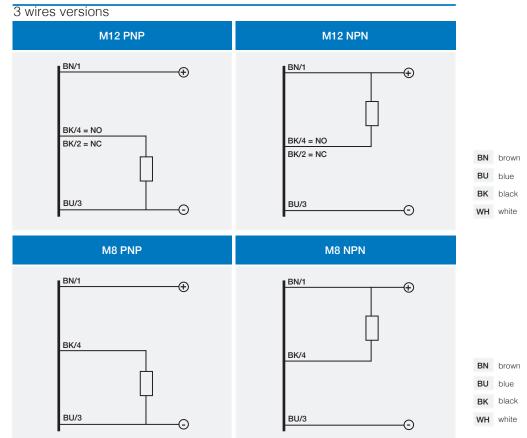
code	steel FE 360	copper	alluminium	brass	stainless steel
AH*/**-1*	1	0.06	0.13	0.24	0.56
AH*/**-2*		0.39	0.45	0.54	0.81
AH*/**-3*		0.1	0.17	0.25	0.6
AH*/**-4*		0.42	0.47	0.52	0.77



	AH*/**-1*	AH*/**-2*	AH*/**-3*	AH*/**-4*			
nominal sensing	1.5 mm	2.5 mm	2 mm	4 mm			
working distance	01.21 mm	02.02 mm	01.62 mm	03.24 mm			
hysteresis		120	120% Sr				
standard target	8x8 mm FE360 12x12 mm FE360						
repeatibility	5%						
operating voltage		1030) Vdc				
max ripple content		≤ 10%					
output type		NPN or PNP	- NO or NC				
output current		≤ 200 mA					
output voltage drop	≤ 1.8 V @ 200 mA						
no-load supply current	10 mA						
leakage current	≤10 µA						
switching frequency		5 kHz					
power on delay	50 ms						
ambient temperature range	-25+70 °C						
temperature drift of Sr	10%						
short-circuit protection	•						
voltage reversal protection		•					
induction protection		•	1				
shocks and vibrations	IEC 60947-5-2						
weight	5 g connector / 35 g cable						
LEDs	yellow LED output state						
protection degree	IP 67 (EN60529)						
EMC	in conformity with the EMC Directive, according to IEC 60947-5-2						
housing material	stainless steel						
active head material	PBT						
connection	cable 2 m PVC - plug M8 or M12						

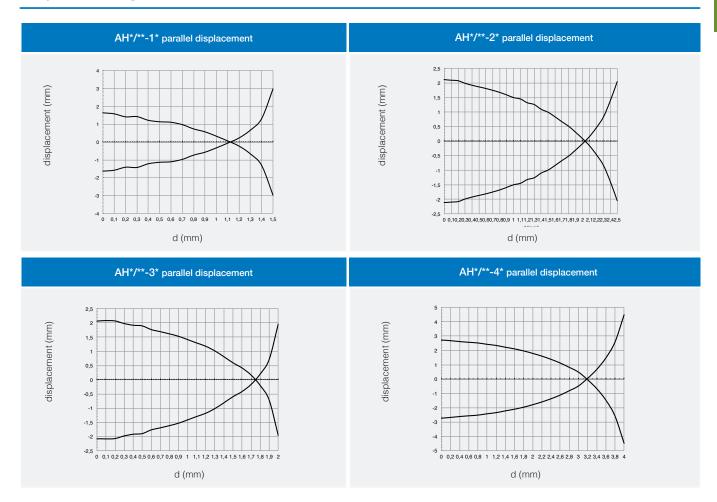
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electrical diagrams of connections

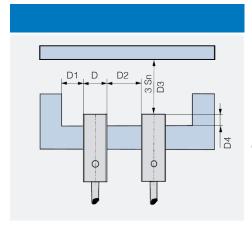


plug

M8	M12 NO	M12 NC
Supply (+)	(OUT NO) (OUT NO) (OUT NO) (OUT NO) (OUT NO) (OUT NO) (I) Supply (I) Supply (I) Supply (I)	Supply (-) Supply (-) (OUT NC)



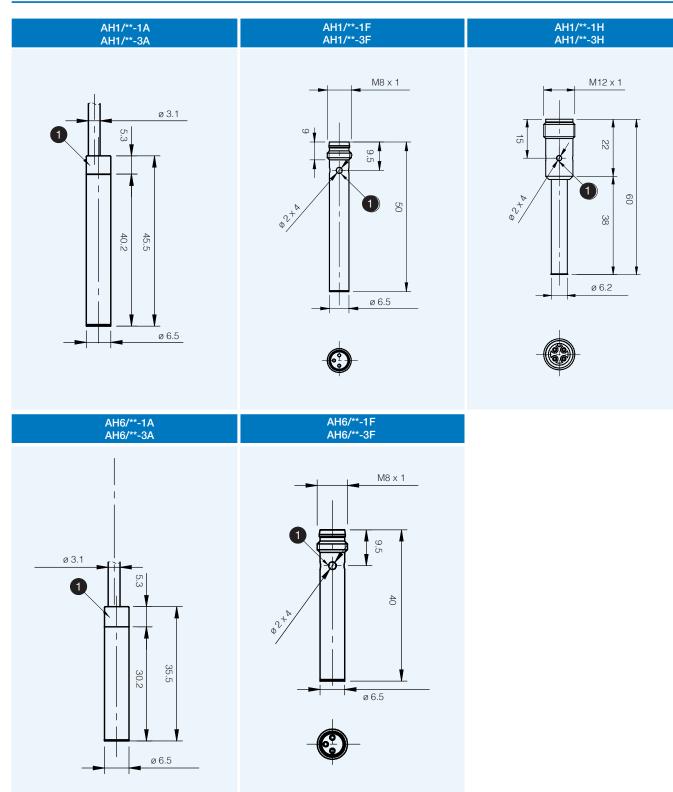
installation



code	D4	D1	D2	D3
AH*/**-1*	≥ 1.3 mm ⁽¹⁾	≥ 3.25 mm	≥ 6.5 mm	≥ 4.5 mm
AH*/**-2*	≥ 5 mm	≥ 6.5 mm	≥ 13 mm	≥ 7.5 mm
AH*/**-3*	≥ 1.95 mm ⁽¹⁾	≥ 3.25 mm	> 6.5 mm	≥ 6 mm
AH*/**-4*	≥ 8 mm	≥ 6.5 mm	> 13 mm	≥ 12 mm

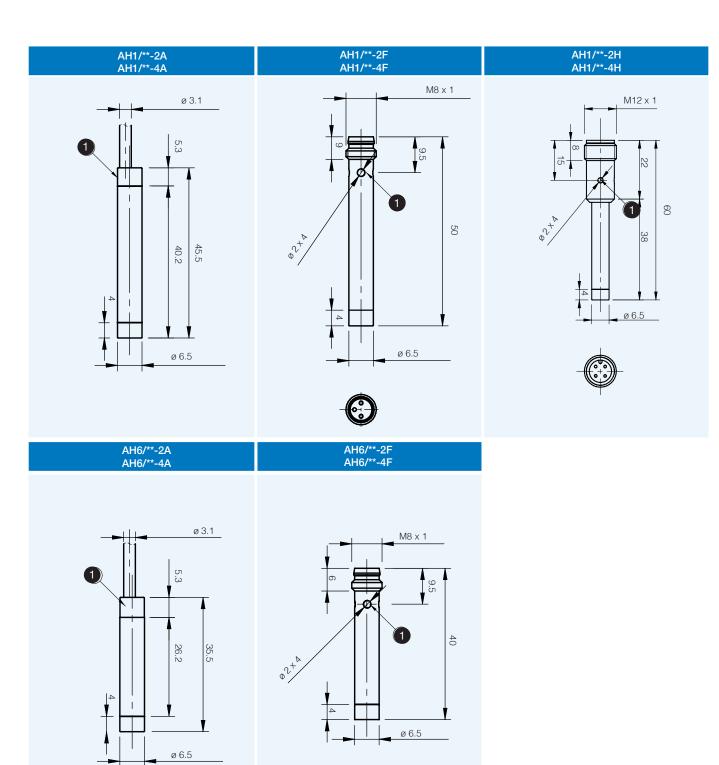
 $^{(1)} \geq 2,\! 6$ mm for non magnetic materials





1 LED





1 LED