

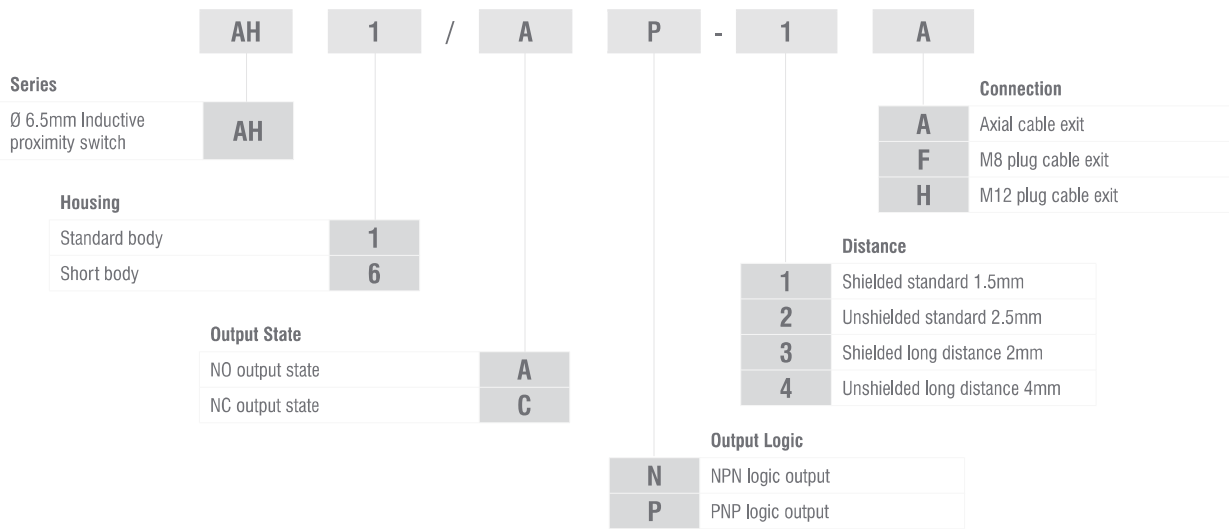
AH1 & AH6 Series

Ø 6.5mm Inductive Proximity Switch

- Stainless steel housing
- LED status indicator (visible 360°)
- IP67 Rated
- Complete protection against electrical damages
- Standard & long distance models
- Standard & short body housing



Options & Ordering Codes



Standard Housing Options

Diameter (mm)	Installation	Distance	Connection	Distance (mm)	NPN/NO	NPN/NC	PNP/NO	PNP/NC			
Ø 6.5	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	Standard	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	
					M12		AH1/AN-2H	AH1/CN-2H	AH1/AP-2H	AH1/CP-2H	
	Shielded	Long Distance	Standard	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		
			Unshielded	Long Distance	Standard	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

Short Housing Options

Diameter (mm)	Installation	Distance	Connection	Distance (mm)	NPN/NO	NPN/NC	PNP/NO	PNP/NC			
Ø 6.5	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			
			M12		AH6/AN-1H	AH6/CN-1H	AH6/AP-1H	AH6/CP-1H			
			Unshielded	Standard	Standard	Cable	2.5	AH6/AN-2A	AH6/CN-2A	AH6/AP-2A	AH6/CP-2A
						M8		AH6/AN-2F	AH6/CN-2F	AH6/AP-2F	AH6/CP-2F
						M12		AH6/AN-2H	AH6/CN-2H	AH6/AP-2H	AH6/CP-2H
	Shielded	Long Distance	Standard	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		
				M12		AH6/AN-3H	AH6/CN-3H	AH6/AP-3H	AH6/CP-3H		
			Unshielded	Long Distance	Standard	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
						M12		AH6/AN-4H	AH6/CN-4H	AH6/AP-4H	AH6/CP-4H

AH1 & AH6 Series

Ø 6.5mm Inductive Proximity Switch

Technical Specifications

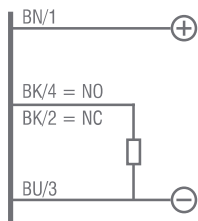
Model	AH**/-1*	AH**/-2*	AH**/-3*	AH**/-4*
Nominal Sensing	1.5mm	2.5mm	2mm	4mm
Working Distance	0 to 1.35mm	0 to 2.25mm	0 to 1.6mm	0 to 3.5mm
Hysteresis	1 to 20% Sr			
Standard Target	8x8mm FE360		12x12mm FE360	
Repeatability	5%			
Operating Voltage	10 to 30VDC			
Max. Ripple Content	≤10%			
Output Type	NPN or PNP, NO or NC			
Output Current	≤200mA			
Output Voltage Drop	≤1.8V @ 200 mA			
No-Load Supply Current	10mA			
Leakage Current	≤10µA			
Switching Frequency	5kHz			
Power On Delay	50ms			
Ambient Temperature Range	-25°C to +70°C			
Temperature Drift of Sr	10%			
Short Circuit Protection	•			
Voltage Reversal Protection	•			
Induction Protection	•			
Shocks & Vibrations	IEC 60947-5-2			
Weight	5g connector / 5g cable			
LED Indicators	Yellow LED output state			
Protection Degree	IP67 (EN 60529)			
EMC	In conformity with the EMC Directive, according to IEC 60947-5-2			
Housing Material	Stainless steel			
Active Head Material	PBT			
Connection	Cable 2m PVC, Plug M8 or M12			

Correction Factors

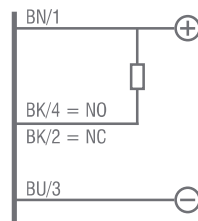
Code	Steel FE 360	Copper	Aluminium	Brass	Stainless Steel
AH**/-1*	1	0.06	0.13	0.24	0.56
AH**/-2*		0.39	0.45	0.54	0.81
AH**/-3*		0.1	0.17	0.25	0.6
AH**/-4*		0.42	0.47	0.52	0.77

Output Circuit - Wiring Connection

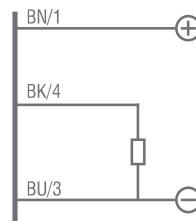
PNP Cable & M12 Plug Exit



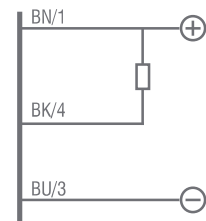
NPN Cable & M12 Plug Exit



PNP Cable & M8 Plug Exit



NPN Cable & M8 Plug Exit

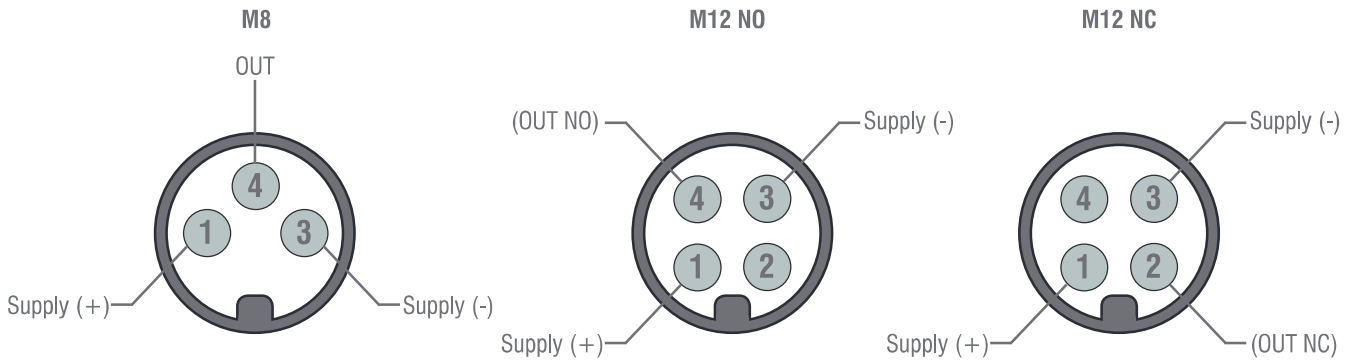


BN - Brown
BU - Blue
BK - Black
WH - White

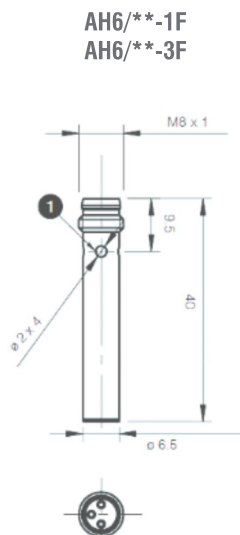
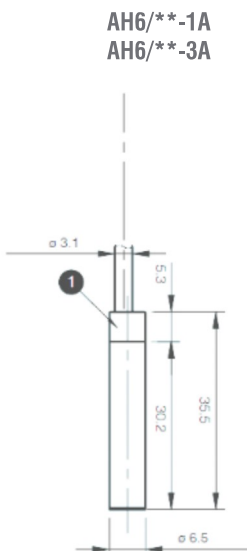
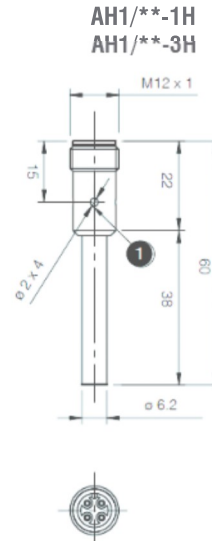
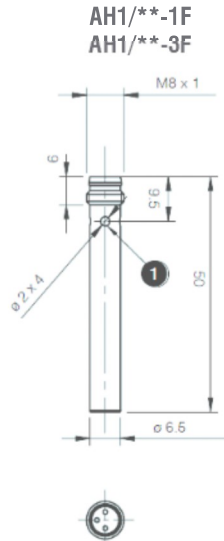
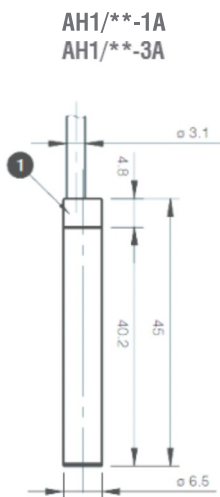
AH1 & AH6 Series

Ø 6.5mm Inductive Proximity Switch

Plug Pin Connections



Dimensions (mm)



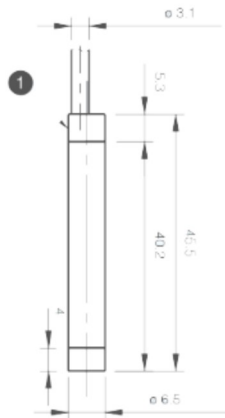
1 LED

AH1 & AH6 Series

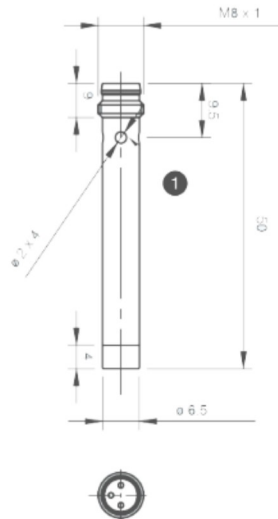
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Dimensions (mm)

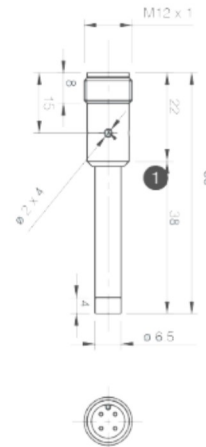
AH1/**-2A
AH1/**-4A



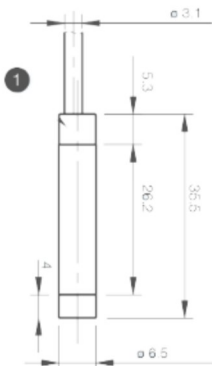
AH1/**-2F
AH1/**-4F



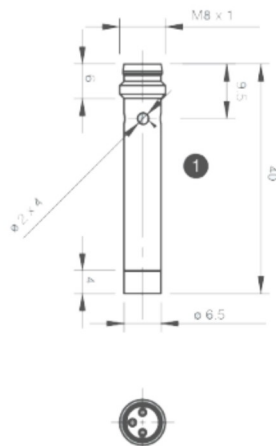
AH1/**-2H
AH1/**-4H



AH6/**-2A
AH6/**-4A



AH6/**-2F
AH6/**-4F



1 LED