YEARS *



- Wide range of models: standard, short body, long distance
- Output: cable, M12 and M8 plug cable exit
- Models with 2, 3 wires
- ATEX models, cat. 3, available on request



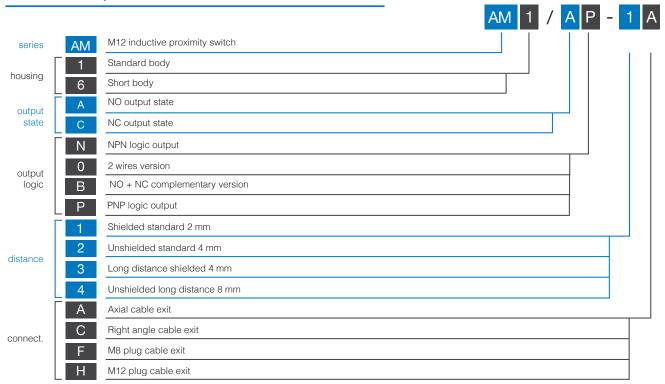
web contents



- Application notes
- Photos
- Catalogue / Manuals



code description (*)



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

N

available models

standard housing

diameter	installation	distance	connection	distance (mm)	NPN/NO	PNP/NO	NPN/NC	PNP/NC
			cable		AM1/AN-1A	AM1/AP-1A	AM1/CN-1A	AM1/CP-1A
	shielded		cable 90° 2 M8 AM1/AN-1C AM1/AN-1F AM1/AP-1F AM1/AN-1H AM1/AP-1H cable AM1/AN-2A AM1/AP-2A Cable 90° AM1/AN-2C AM1/AP-2C M8 AM1/AN-2F AM1/AP-2F	AM1/CN-1C	AM1/CP-1C			
	Sillelueu		M8	2	AM1/AN-1F	AM1/AP-1F	AM1/CN-1F	AM1/CP-1F
		standard	M12		AM1/AN-1H	AM1/AP-1H	AM1/CN-1H	AM1/CP-1H
	unshielded		cable	AM1/AN-2C AM1/AN-2F	AM1/AP-2A	AM1/CN-2A	AM1/CP-2A	
M12			cable 90°		AM1/AN-2C	AM1/AP-2C	AM1/CN-2C	AM1/CP-2C
IVI I Z			M8		AM1/AN-2F	AM1/AP-2F	AM1/CN-2F	AM1/CP-2F
			M12		AM1/AN-2H	AM1/AP-2H	AM1/CN-2H	AM1/CP-2H
	shielded		cable		AM1/AN-3A	AM1/AP-3A AM	AM1/CN-3A	AM1/CP-3A
		long	M12		AM1/AN-3H	AM1/AP-3H	AM1/CN-3H	AM1/CP-3H
	unshielded	distance	cable	8	AM1/AN-4A	AM1/AP-4A	AM1/CN-4A	AM1/CP-4A
	urismelded		M12	O	AM1/AN-4H	AM1/AP-4H	AM1/CN-4H	AM1/CP-4H

available models

short housing

diameter	installation	distance	connection	distance (mm)	NPN/NO	PNP/NO	NPN/NC	PNP/NC
			cable		AM6/AN-1A	AM6/AP-1A	AM6/CN-1A	AM6/CP-1A
	shielded		cable 90°	2	AM6/AN-1C	AM6/AP-1C	AM6/CN-1C	AM6/CP-1C
		standard	M12		AM6/AN-1H	AM6/AP-1H	AM6/CN-1H	AM6/CP-1H
	unshielded		cable		AM6/AN-2A	AM6/AN-2A AM6/AP-2A AM6	AM6/CN-2A	AM6/CP-2A
			cable 90°		AM6/AN-2C	AM6/AP-2C	AM6/CN-2C	AM6/CP-2C
M12			M12	4	AM6/AN-2H	AM6/AP-2H	AM6/CN-2H	AM6/CP-2H
	shielded		cable		AM6/AN-3A	AM6/AP-3A	AM6/CN-3A	AM6/CP-3A
	Shleided	long	M12		AM6/AN-3H	AM6/AP-3H	AM6/CN-3H	AM6/CP-3H
	unshielded	distance	cable	0	AM6/AN-4A	AM6/AP-4A	AM6/CN-4A	AM6/CP-4A
	urismelded		M12	O	AM6/AN-4H	AM6/AP-4H	AM6/CN-4H	AM6/CP-4H

available models

DC 2 wires models

diameter	installation	distance	connection	distance (mm)	NO - NPN/PNP
	shielded	standard	cable	2	AM1/A0-1A
			M12		AM1/A0-1H
	unshielded		cable	4	AM1/A0-2A
M12			M12		AM1/A0-2H
IVI IZ	shielded	long distance	cable		AM1/A0-3A
			M12		AM1/A0-3H
	unshielded		cable	8	AM1/A0-4A
			M12	Ö	AM1/A0-4H

available models

4 wires models

				distance	short housing		standard housing	
diameter	installation	distance	connection	(mm)	NPN/NO+NC	PNP/NO+NC	NPN/NO+NC	PNP/NO+NC
	11.11.1		cable		AM6/BN-1A	AM6/BP-1A	AM1/BN-1A	AM1/BP-1A
	shielded	standard	M12	2	AM6/BN-1H	AM6/BP-1H	AM1/BN-1H	AM1/BP-1H
	unshielded		cable	4	AM6/BN-2A	AM6/BP-2A	AM1/BN-2A	AM1/BP-2A
M12			M12		AM6/BN-2H	AM6/BP-2H	AM1/BN-2H	AM1/BP-2H
IVI I Z	shielded	long	cable		AM6/BN-3A	AM6/BP-3A	AM1/BN-3A	AM1/BP-3A
			M12		AM6/BN-3H	AM6/BP-3H	AM1/BN-3H	AM1/BP-3H
	unobioldod	distance	cable	0	AM6/BN-4A	AM6/BP-4A AN	AM1/BN-4A	AM1/BP-4A
	unshielded	ieiaea	M12	8	AM6/BN-4H	AM6/BP-4H	AM1/BN-4H	AM1/BP-4H



	AM*/**-1*	AM*/**-2*	AM*/**-3*	AM*/**-4*			
		•	•	4.			
nominal sensing distance Sn	2 mm	4 mm	4 mm	8 mm			
operating distance	01.6 mm	03.2 mm	03.2 mm	06.4 mm			
hysteresis		12	20%				
standard target		12x12 mm FE 360		24x24 mm FE 360			
repeatibility		5% UB 20-30 V T	a = 23°C ± 5°C				
operating voltage		1030) Vdc				
max ripple content		≤ 10)%				
output type	NPN or PNP - NO or NC (3	wires models), NPN/PNP - NO ((2 wires models), NPN or PNP -	NO+ NC (4 wires models)			
output current		≤ 200 mA (3100 mA	A for 2 wires versions)				
output voltage drop		≤ 1.8 V @ 200 mA (2,8 V @ 1	00 mA for 2 wires versions)				
no-load supply current		10 r	mA				
leakage current		10 μA (0.8 mA for 2 wires versions)					
switching frequency	2 kHz (1.5 kHz for 2 wires) 2 kHz (750 Hz for 2 wires)						
power on delay		50 ms					
ambient temperature range		-25+	70 °C				
temperature drift of Sr		109	%				
short-circuit protection		•)				
voltage reversal protection		•)				
induction protection	•						
shocks and vibrations	IEC/EN60947-5-2						
weight		30 g connector (2 70 g cable (60					
LEDs		yellow LED o	output state				
protection degree		IP67 ⁽¹⁾ (EN	N60529)				
EMC	in conformity with the EMC Directive, according to IEC 60947-5-2						
housing material		nickel-plat	ted brass				
active head material	PBT						
connection	cable 2 m PVC - plug M8 or M12						
tightening torque		10 N	Nm				

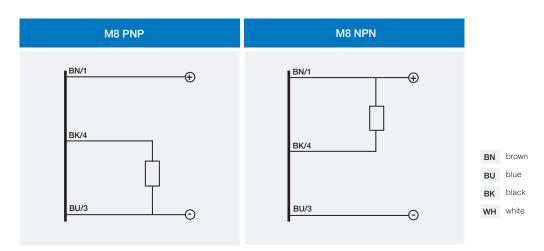
⁽¹⁾ Protection guaranteed only with plug cable wall mounted



code	steel FE 360	copper	alluminium	brass	stainless steel
AM*/**-1*		0.22	0.31	0.41	0.77
AM*/**-2*		0.41	0.47	0.56	1.15
AM*/**-3*	1	0.33	0.4	0.5	1.05
AM*/**-4*		0.41	0.46	0.52	0.71
AM*/*0-1*		0.3	0.35	0.5	0.8
AM*/*0-2*		0.52	0.57	0.62	0.87
AM*/A0-3*		0.42	0.47	0.55	0.8

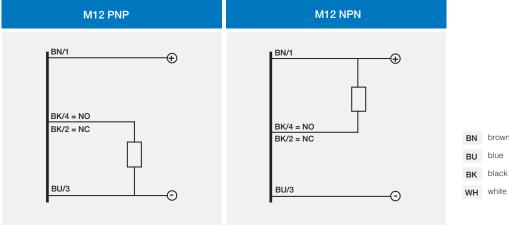
electrical diagrams of connections

3 wires versions



electrical diagrams of connections

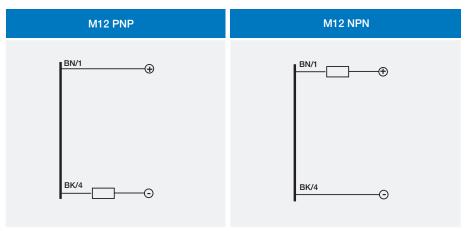
3 wires versions



BN brown

electrical diagrams of connections

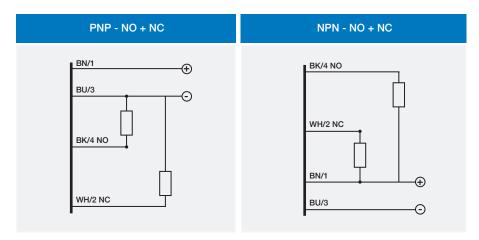
2 wires versions





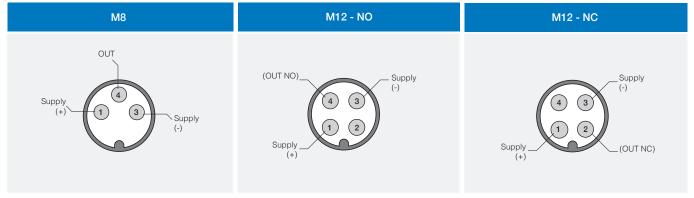
electrical diagrams of connections

4 wires versions



plug

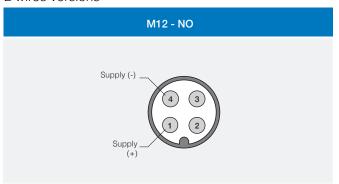
3 wires versions



Connectors CD series

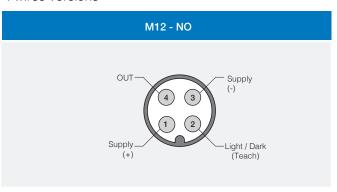
plug

2 wires versions



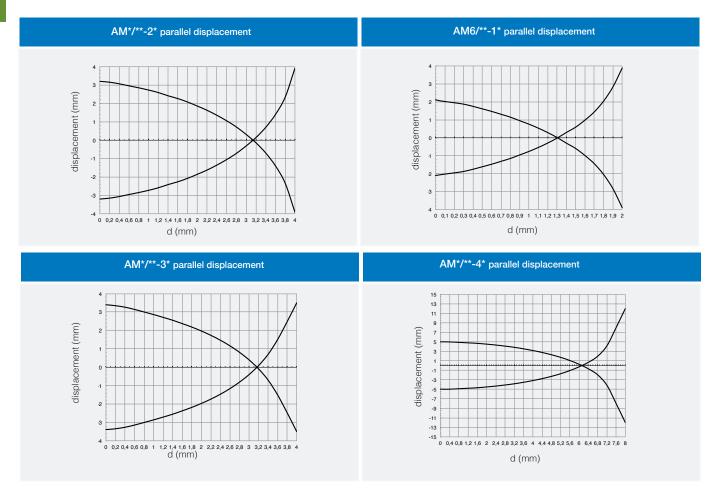
plug

4 wires versions

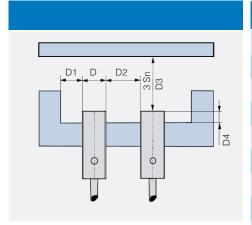


Connectors CD series



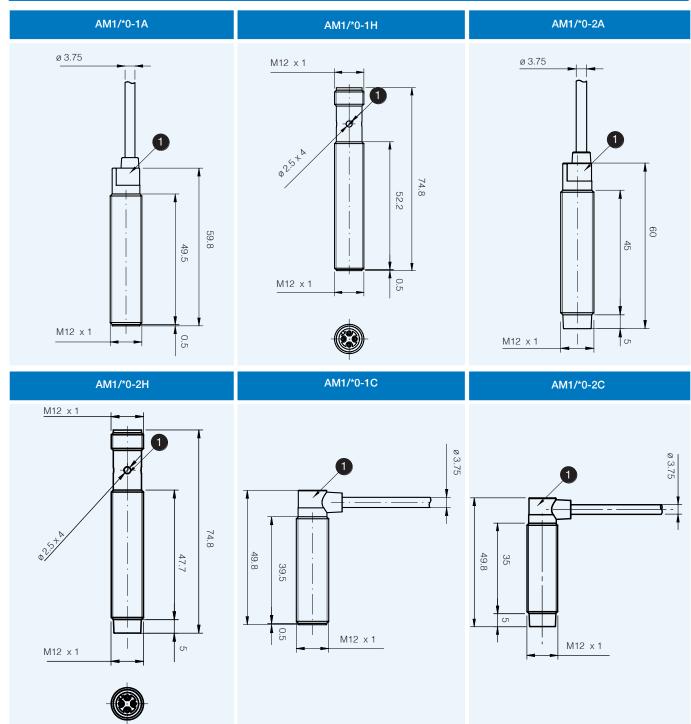


installation

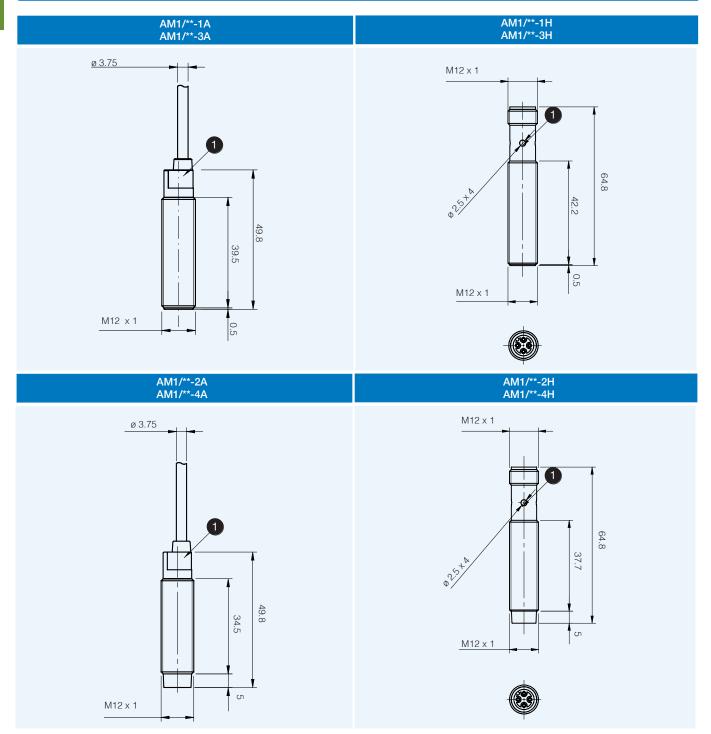


code	D4	D1	D2	D3
AM1/**-1*	≥ 0 mm	≥ 6 mm	≥ 12 mm	≥ 6 mm
AM1/**-2*	≥ 6 mm ⁽¹⁾	≥ 12 mm	≥ 24 mm	≥ 12 mm
AM1/**-3*	≥ 2 mm ⁽²⁾	> 6 mm	≥ 12 mm	2 12 111111
AM1/**-4*	≥ 8 mm	≥ 12 mm	> 24 mm	≥ 24 mm
AM1/*0-1*	≥ 2.4 mm	≥ 6 mm	≥ 12 mm	≥ 6 mm
AM1/*0-2*	≥ 8 mm	≥ 12 mm	≥ 24 mm	≥ 12 mm
AM1/*0-3*	≥ 2.4 mm	≥ 6 mm	≥ 12 mm	2 12 111111
AM1/*0-4*	≥ 16 mm	≥ 12 mm	≥ 24 mm	≥ 24 mm
AM6/**-1*	≥ 0 mm	≥ 6 mm	≥ 12 mm	≥ 6 mm
AM6/**-2*	≥ 6 mm ⁽³⁾	≥ 12 mm	≥ 24 mm	≥ 12 mm
AM6/**-3*	≥ 1.2 mm	> 6 mm	≥ 12 mm	2 12 111111
AM6/**-4*	≥ 8 mm	≥ 12 mm	> 24 mm	≥ 24 mm

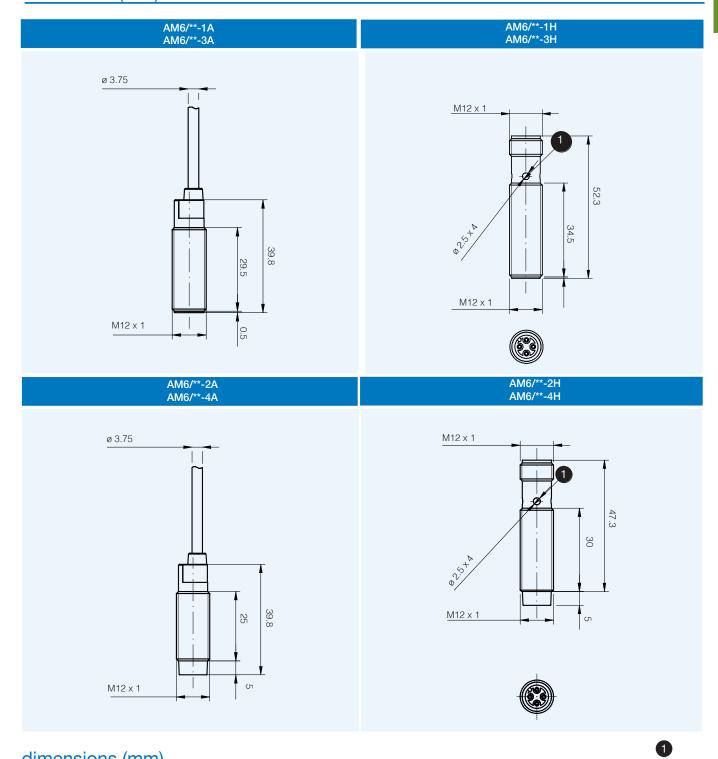
 $^{^{(1)} \}geq 0.6$ mm for non magnetic material $^{(2)} \geq 0.8$ mm for non magnetic material $^{(3)} \geq 2$ mm for non magnetic material



1 LED



1 LED



dimensions (mm)

accessories included

