

## AM08 ALL METAL SERIES

## ARTICLE PROPERTIES

<b>SENSOR TYPE</b>	Inductive sensor	<b>CONNECTION TYPES</b> (see table)	
<b>SIZE</b>	M8x1	• Cable	PUR, 0.14 mm <sup>2</sup> , 2 m**
<b>RATED OPERATING DISTANCE</b>	See table		
<b>NUMBER OF CONDUCTORS</b>	2-wire / 3-wire (see table)		** Other cable lengths are available on request

## MECHANICAL DATA

<b>MOUNTING</b> (mounting nuts included in delivery)	Flush / non-flush (see table)
<b>HOUSING</b>	Threaded cylindrical
<b>MATERIAL HOUSING</b>	Stainless steel
<b>MATERIAL SENSING SURFACE</b>	Stainless steel
<b>TIGHTENING TORQUE LOCKING</b>	5 N·m
<b>STANDARD TEST</b>	FE360
<b>ATTENUATION COEFFICIENT</b>	St37 = 1, V2A = 0.7, Al = 0.3

## ELECTRICAL DATA

<b>OPERATING VOLTAGE</b>	DC: 10 ... 30 V DC
<b>RATED OPERATING CURRENT</b>	2-wire DC: ≤ 100 mA 3-wire: ≤ 200 mA
<b>SWITCHING FREQUENCY</b>	See table
<b>SWITCHING OUTPUT</b>	See table
<b>FUNCTION INDICATOR</b>	Yellow LED
<b>HYSTERESIS</b>	3 ... 15 %
<b>TEMPERATURE DRIFT</b>	±10 %
<b>SHORT-CIRCUIT PROTECTION</b>	Yes
<b>OVERLOAD RESISTANCE</b>	Yes
<b>REVERSE POLARITY PROTECTION</b>	Yes

## ENVIRONMENTAL CONDITIONS

<b>PROTECTION CLASS</b>	IP67	<b>VIBRATION RESISTANCE</b> (EN 60068-2-6)	10 ... 55 Hz, 1 mm
<b>AMBIENT TEMPERATURE</b>	-25 ... +70 °C	<b>SHOCK RESISTANCE</b> (EN 60068-2-27)	30 g, 11 ms

## STANDARDS AND DIRECTIVES

<b>EMC DIRECTIVE 2014/30/EU</b>	EN IEC 60947-5-2
<b>ROHS DIRECTIVE 2011/65/EU</b>	EN IEC 63000

## APPROVALS



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**DC 2-WIRE OUTPUT CABLE**

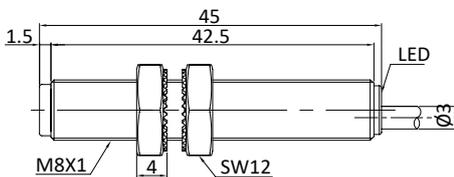
Article number	Mounting	Rated operating distance Sn	Switching output (wiring diagram)	Switching frequency	Dimensions
Fi1-AM08-OD6L	flush	1 mm	DC NO (WD1)	200 Hz	see Fig. 1
Fi1-AM08-CD6L	flush	1 mm	DC NC (WD2)	200 Hz	see Fig. 1
Ni2-AM08-OD6L	non-flush	2 mm	DC NO (WD1)	200 Hz	see Fig. 2
Ni2-AM08-CD6L	non-flush	2 mm	DC NC (WD2)	200 Hz	see Fig. 2

**DC 3-WIRE OUTPUT CABLE**

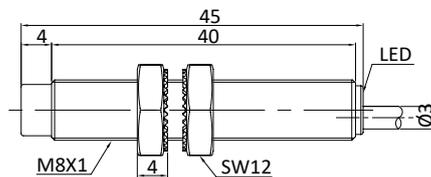
Article number	Mounting	Rated operating distance Sn	Switching output (wiring diagram)	Switching frequency	Dimensions
Fi1-AM08-OP6L	flush	1 mm	PNP NO (WD7)	200 Hz	see Fig. 1
Fi1-AM08-ON6L	flush	1 mm	NPN NO (WD8)	200 Hz	see Fig. 1
Fi1-AM08-CP6L	flush	1 mm	PNP NC (WD9)	200 Hz	see Fig. 1
Fi1-AM08-CN6L	flush	1 mm	NPN NC (WD10)	200 Hz	see Fig. 1
Ni2-AM08-OP6L	non-flush	2 mm	PNP NO (WD7)	200 Hz	see Fig. 2
Ni2-AM08-ON6L	non-flush	2 mm	NPN NO (WD8)	200 Hz	see Fig. 2
Ni2-AM08-CP6L	non-flush	2 mm	PNP NC (WD9)	200 Hz	see Fig. 2
Ni2-AM08-CN6L	non-flush	2 mm	NPN NC (WD10)	200 Hz	see Fig. 2

**DIMENSIONS**

**Fig. 1** Inductive sensor with cable (flush)



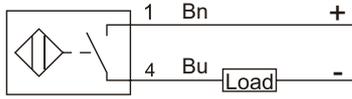
**Fig. 2** Inductive sensor with cable (non-flush)



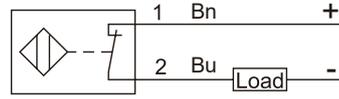
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WIRING DIAGRAMS (Note: 1 / 2 / 3 / 4 connector and terminals pin number Bn / Bu / Wh / Bk cable color)

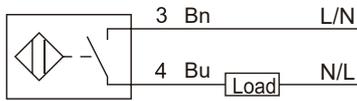
**WD1 DC 2-wire NO**



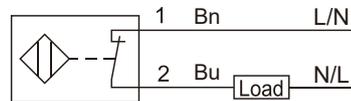
**WD2 DC 2-wire NC**



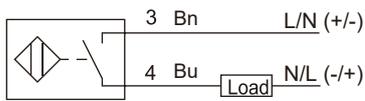
**WD3 AC 2-wire NO**



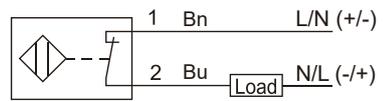
**WD4 AC 2-wire NC**



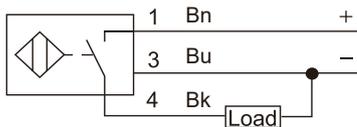
**WD5 AC/DC 2-wire NO**



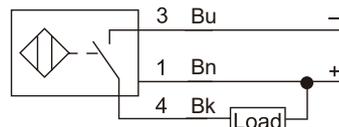
**WD6 AC/DC 2-wire NC**



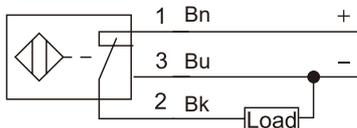
**WD7 DC 3-wire PNP NO**



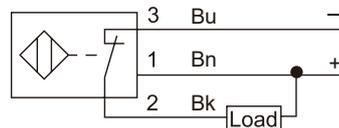
**WD8 DC 3-wire NPN NO**



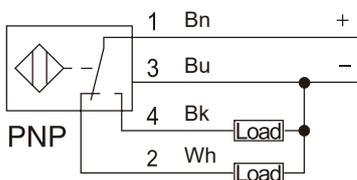
**WD9 DC 3-wire PNP NC**



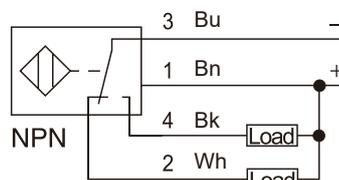
**WD10 DC 3-wire NPN NC**



**WD11 DC 4-wire PNP NO + NC**



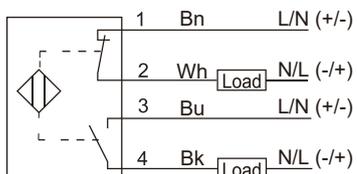
**WD12 DC 4-wire NPN NO + NC**



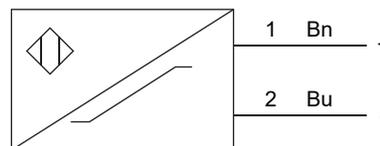
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WIRING DIAGRAMS (Note: 1 / 2 / 3 / 4 connector and terminals pin number Bn / Bu / Wh / Bk cable color)

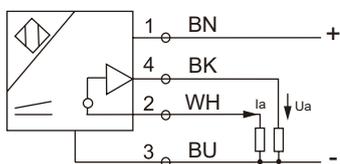
**WD13 AC/DC 4-wire NO+NC**



**WD14 NAMUR 2-wire NC**



**WD15 DC 4-wire 0-10V+0-20mA**



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