



PH6 series

Ø 6.5 mm cylindrical
miniaturized inductive sensors



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miniaturized

features

- Cable and M8 plug versions
- Reduced dimensions: Ø 6.5 mm x 16 mm (cable) / 29 mm (plug) length
- Supply voltage 10...30 Vdc, output current 200 mA
- Led status indicator
- IP 67 housing protection
- Complete protection against electrical damages



web contents



- Application notes
- Photos
- Catalogue / Manuals



code description (*)

			PH6 / A P - 1 A
series	PH6	Ø 6.5 mm inductive proximity switch	
output state	A	NO output state	
	C	NC output state	
output logic	N	NPN logic output	
	P	PNP logic output	
distance	1	Long distance shielded 1.5 mm	
connect.	A	Cable exit output	
	F	M8 plug cable exit	

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

available models

diameter	installation	distance	plug	distance (mm)	NPN/NO	NPN/NC	PNP/NO	PNP/NC
Ø 6.5 mm	shielded	standard	cable	1.5	PH6/AN-1A	PH6/CN-1A	PH6/AP-1A	-
			M8		-	PH6/CN-1F	-	PH6/CP-1F



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technical specification

	PH6/**-1*
nominal sensing distance	1.5 mm
hysteresis	≤ 10 % Sr
standard target	6.5 x 6.5 x 1 mm
repeatability	2%
operating voltage	10...30 Vdc
max ripple content	≤ 20%
output type	NPN or PNP - NO or NC
output current	≤ 200 mA
output voltage drop	≤ 2.0 V @ 100 mA
no-load supply current	≤ 10 mA
leakage current	≤ 0,1 mA
switching frequency	≤ 5000 Hz
power on delay	10 ms
ambient temperature range	-25...+70 °C
temperature drift of Sr	≤ 10%
short-circuit protection	•
voltage reversal protection	•
induction protection	•
shocks and vibrations	IEC 60947-5-2 / 7.4
weight	3 g connector M8 32 g cable
protection degree	IP 67
EMC:	
IEC 60255-5	1 kV
IEC 61000-4-2	level 2
IEC 61000-4-3	level 3
IEC 61000-4-4	level 2
housing material	stainless steel V2A
active head material	polyester
connection	2 m PVC cable 3 x 0.14 mm²

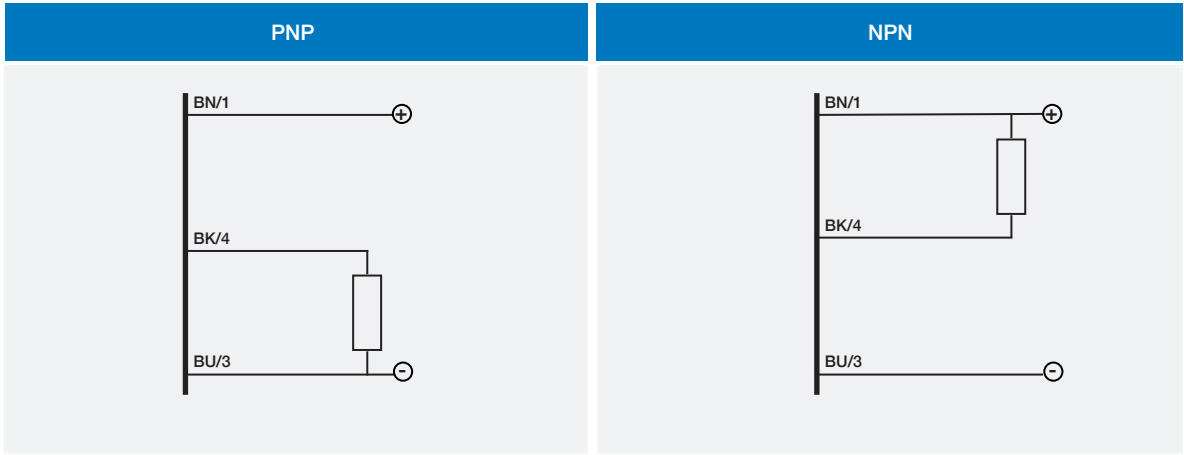
correction factors

model	steel FE 360	copper	alluminium	brass	stainless steel
PH6/**-**	1.0	0.40	0.45	0.50	0.80



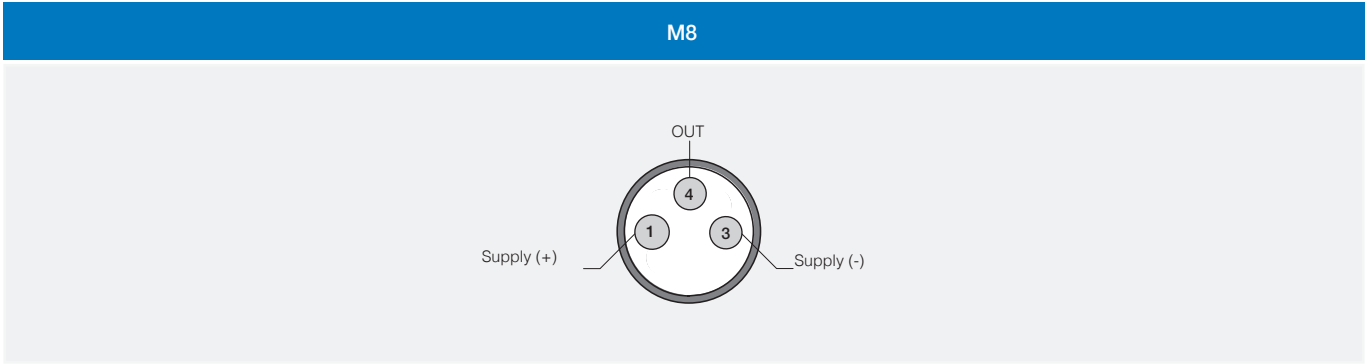
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electrical diagrams of connections

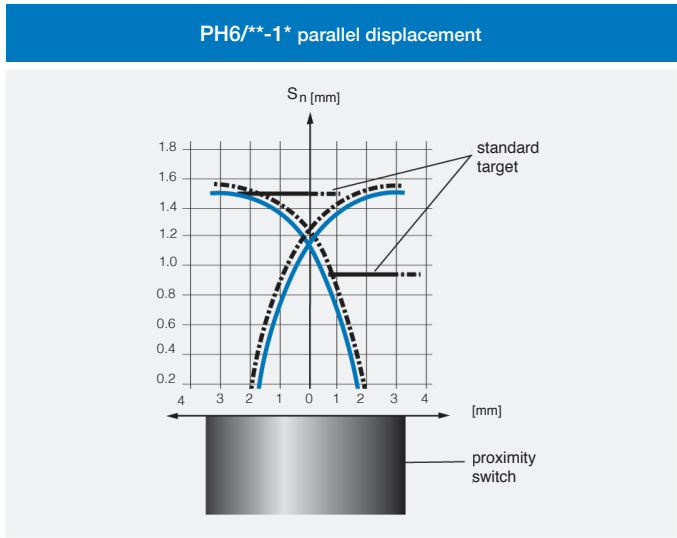


- BN brown
- BU blue
- BK black
- WH white

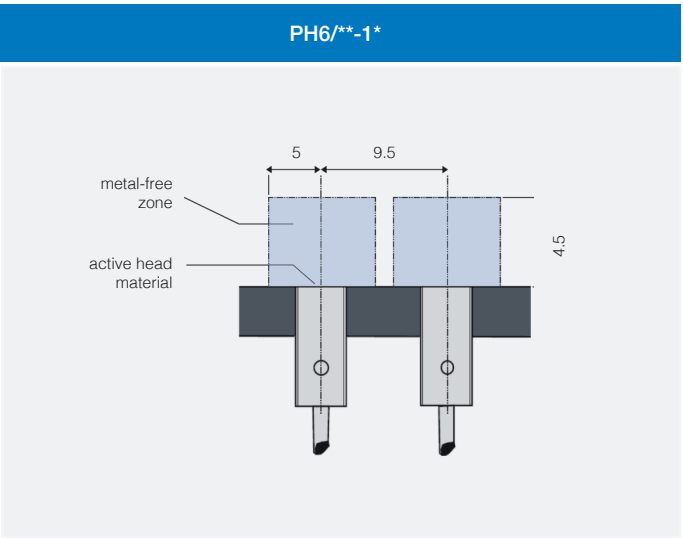
plug



response diagram

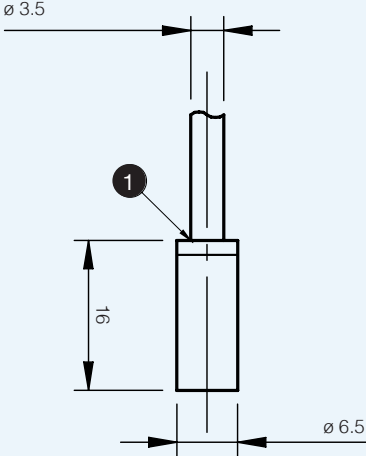
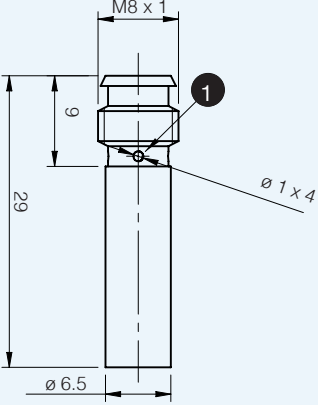


installation





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PH6/**-1A	PH6/**-1F
	

1 LED