

SERIE	PE
Miniature inductive proximity sensors M8 - DC Short version	
<ul style="list-style-type: none"> ◆ Metal housing ◆ Axial cable exit and miniature M8 plug cable exit ◆ LED status indicator ◆ IP67 protection degree ◆ Complete protection against electrical damages 	



DIMENSIONAL DRAWING	
<p>PE6/**-1A</p>	<p>PE6/**-1F</p>
Key	
<ul style="list-style-type: none"> 1 Axial cable exit 2 M8 miniature plug cable exit 3 Cable 3x0,14mm², Ø3,5mm, PVC, 2m 4 LED (NO output energized) - Ring LED for type F 	
Connectors CD serie	

CHARACTERISTIC CURVES	
Detection area	
<p>Distance Y (mm) vs Distance X (mm)</p>	
Distance / target size	
<p>Distance Xon (mm) vs Target dimensions (mm)</p>	

ORDERING SYSTEM											
PE6 / AN - 1 A											
serie	miniature inductive proximity sensors	PE6	axial cable exit	A	M8 miniature plug cable exit	F	sensing range	1	standard shielded 1,5mm	N	NPN output
output state	NO output state	A					logic	P	PNP output		
	NC output state	C									

SPECIFICATIONS		
Model	PE6/**-1A	PE6/**-1F
Nominal sensing distance S_n ⁽¹⁾	1,5mm	
Operating distance	0...1,2mm (shielded)	
Differential travel	10% Typ	
Repeat accuracy	5%	
Operating voltage	10-30Vdc	
Ripple	≤ 20%	
No-load supply current	10mA	
Load current	≤ 200mA	
Leakage current	≤ 10µA	
Voltage drop	2V max. $I_L=200mA$	
Output type	NPN or PNP NO or NC	
Switching frequency	2KHz	
Time delay before availability	10ms	
Supply electrical protections	polarity reversal, transient	
Output electrical protections	short circuit (autoreset)	
Temperature range	-25°...+70°C	
Temperature drift	10% Sr	
Protection degree (DIN 40 050)	IEC IP67	
LED indicators	Yellow (NO output energized)	
Housing material	nickel-plated brass	
Sensing face material	PBT	
Tightening torque	4Nm	
Weight (approx.)	45g	18g

(1) with 8x8mm FE360 target.

WIRING DIAGRAMS	
NPN output	
PNP output*	
The max. admissible capacity $C = 100nF$ for max. output voltage and current.	

CONNECTORS	
M8 (F type)	