

1.1

SERIE	PD
Miniature inductive proximity sensors M5 - DC	
<ul style="list-style-type: none"> ◆ Extremely reduced dimensions ◆ 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 style="text-align: center;">PD1/**-1A</p>	<p style="text-align: center;">PD1/**-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 status indicator (NO output energized) Connectors CD serie	

CHARACTERISTIC CURVES	
Detection area	
Distance / target size	



ORDERING SYSTEM		
P D 1 / A N - 1 A		
serie		
miniature inductive proximity sensors	PD1	
output state		
NO output state	A	
NC output state	C	
	1	standard shielded 0,8mm
	N	NPN output
	P	PNP output
	A	axial cable exit
	F	M8 miniature plug cable exit
		sensing range
		logic
		cable exit

SPECIFICATIONS		
Model	PD1/**-1A	PD1/**-1F
Nominal sensing distance Sn⁽¹⁾	0,8mm	
Operating distance	0...0,65mm (shielded)	
Differential travel	10% Typ	
Repeat accuracy	1,5%	
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	5KHz	
Time delay before availability	10ms	
Supply electrical protections	polarity reversal, transient short circuit (autoreset)	
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	stainless steel	
Sensing face material	PBT	
Tightening torque	1,5Nm	
Weight (approx.)	43g	10g

(1) with 5x5mm FE360 target.

WIRING DIAGRAMS	
NPN output	
PNP output	
The max. admissible capacity C = 200nF for max. output voltage and current.	

CONNECTORS	
M8 (F type)	