



1.1

<b>SERIE</b>	<b>AE</b>
<b>Inductive proximity sensors M8 - DC</b>	
<ul style="list-style-type: none"> <li>◆ Extremely reduced housing</li> <li>◆ Metal housing</li> <li>◆ Axial cable exit</li> <li>◆ M8 and M12 plug cable exit</li> <li>◆ LED status indicator 360° visible</li> <li>◆ IP67 protection degree</li> <li>◆ Complete protection against electrical damages</li> </ul>	



DIMENSIONAL DRAWING	
AE1/**-*A	AE1/**-*F
<b>Key</b>	
<ul style="list-style-type: none"> <li>1 Axial cable exit</li> <li>2 M8 miniature plug cable exit</li> <li>3 M12 miniature plug cable exit</li> <li>4 Cable 3x0,14mm<sup>2</sup>, Ø3,1mm, PVC, 2m</li> <li>5 LED status indicator (NO output energized)</li> <li>6 Shielded version</li> <li>7 Unshielded version</li> </ul> <p>Connectors <b>CD</b> serie Accessories <b>ST</b> serie</p>	

ORDERING SYSTEM					
<b>AE1 / AN - 1 A</b>					
serie	miniature inductive proximity sensor	<b>AE1</b>			
output state	NO output state	<b>A</b>			
	NC output state	<b>C</b>			
logic	NPN output	<b>N</b>			
	PNP output	<b>P</b>			
			<b>A</b>	axial cable exit	
			<b>F</b>	M8 miniature plug cable exit	
			<b>H</b>	M12 plug cable exit	
			<b>1</b>	standard shielded 1,5mm	sensing range
			<b>2</b>	unshielded 2,5mm	

SPECIFICATIONS		
Model	AE1/**-1*	AE1/**-2*
Nominal sensing distance $S_n$ <sup>(1)</sup>	1,5mm	2,5mm
Operating distance	0...1,2mm	0...2mm
Differential travel		2...10%
Repeat accuracy		2%
<b>Operating voltage</b>		10-30Vdc
Ripple		≤10%
No-load supply current		20mA
<b>Load current</b>		≤200mA
Leakage current		≤10μA
Voltage drop		1,2V max.
<b>Output type</b>		NPN or PNP NO or NC
Switching frequency	3KHz	2,5KHz
Time delay before availability		100ms
<b>Supply electrical protections</b>		polarity reversal, transient
Output electrical protections		short circuit (autoreset)
<b>Temperature range</b>		-25°...+70°C
Temperature drift		10% Sr
<b>Protection degree (DIN 40 050)</b>		IEC IP67
LED indicators		Yellow (NO output energized)
<b>Housing material</b>		nickel-plated brass
Sensing face material		PBT
Tightening torque		4Nm
Weight (approx.)	43g (A type), 16g (F type), 20g (H type)	

(1) with 8x8mm FE360 target.

