

SENSOR ,E4PA-LS400-M1-N

URL:<https://www.sxplc.com/sensor-e4pa-ls400-m1-n>

Product data sheet

Item	E4PA-LS50-M1-N	E4PA-LS200-M1-N	E4PA-LS400-M1-N	E4PA-LS600-M1-N
Sensing range	50 to 500 mm	120 to 2,000 mm	240 to 4,000 mm	400 to 6,000 mm

Dead band distance	0 to 50 mm	0 to 120 mm	0 to 240 mm	0 to 400 mm
Standard sensing object	100 × 100 mm flat plate			
Applied frequency	Approx. 380 kHz	Approx. 180 kHz	Approx. 85 kHz	Approx. 65 kHz

Response time	63 ms max.	195 ms max.	440 ms max.	850 ms max.
Power supply voltage	10 to 30 VDC; ripple (p-p): 10% max.			
Power consumption	1,800 mW max.			

<p>Analog output</p>	<p>Current output: 4 to 20 mA (Allowable load resistance: 500 Ω max.)</p> <p>Voltage output: 0 to 10 V (1,000 Ω min.)</p>			
<p>Protective circuit</p>	<p>Load short-circuit protection, mutual interference prevention</p>			
<p>Mutual interference prevention cycle time</p>	<p>10 ms</p>	<p>34 ms</p>	<p>77 ms</p>	<p>143 ms</p>

Linearity	$\pm 1\%$ FS max.
Repeat accuracy *	0.1% FS max.
Temperature influence	$\pm 1\%$ FS of output value at +23°C in the temperature range of -10 to 55°C

Voltage influence	<p>±5% FS max. within rated power supply voltage range</p>
Ambient temperature	<p>Operating: -10 to 55°C (with no icing or condensation) Storage: -40 to 85°C (with no icing or condensation)</p>
Ambient humidity	<p>Operating and storage: 35% to 85% (with no condensation)</p>

Insulation resistance	50 M Ω min. (at 500 VDC) between current-carrying parts and case
Dielectric strength	1,000 VAC (50/60 Hz) for 1 min between current-carrying parts and case
Vibration resistance	Destruction: 10 to 55 Hz, 1-mm double amplitude for 2 hours each in X, Y, and Z directions

Shock resistance	Destruction: 300 m/s^2 three times each in X, Y, and Z directions
Connection method	5-conductor connector
Degree of protection	IEC60529: IP65

Weight (packed)	Approx. 240 g	Approx. 320 g	Approx. 400 g
Materials	Case: Stainless steel (SUS303) Sensing surface: PBT resin, polyurethane, glass epoxy resin Clamping nut: Stainless steel (SUS303)		
Accessories	Operation Manual		

