



Three-Wire Sensors, continued

Operating Voltage	Sensing Range (Sn)	Shielding	Connection Type ^①	NO Output Catalog Number	NC Output Catalog Number
30 mm Diameter End Sensing					
10–48 Vdc	10 mm (standard range)	Shielded (PNP)	2-meter cable	E57P-30SPN10-C2	E57P-30SPC10-C2
			4-pin micro DC connector	E57P-30SPN10-Q	E57P-30SPC10-Q
		Shielded (NPN)	2-meter cable	E57P-30SNN10-C2	E57P-30SNC10-C2
			4-pin micro DC connector	E57P-30SNN10-Q	E57P-30SNC10-Q
	15 mm (standard range)	Unshielded (PNP)	2-meter cable	E57P-30UPN15-C2	E57P-30UPC15-C2
			4-pin micro DC connector	E57P-30UPN15-Q	E57P-30UPC15-Q
		Unshielded (NPN)	2-meter cable	E57P-30UNN15-C2	E57P-30UNC15-C2
			4-pin micro DC connector	E57P-30UNN15-Q	E57P-30UNC15-Q
	15 mm (extended range)	Shielded (PNP)	2-meter cable	E57P-30SPN15-C2	E57P-30SPC15-C2
			4-pin micro DC connector	E57P-30SPN15-Q	E57P-30SPC15-Q
		Shielded (NPN)	2-meter cable	E57P-30SNN15-C2	E57P-30SNC15-C2
			4-pin micro DC connector	E57P-30SNN15-Q	E57P-30SNC15-Q
	22 mm (extended range)	Unshielded (PNP)	2-meter cable	E57P-30UPN22-C2	E57P-30UPC22-C2
			4-pin micro DC connector	E57P-30UPN22-Q	E57P-30UPC22-Q
		Unshielded (NPN)	2-meter cable	E57P-30UNN22-C2	E57P-30UNC22-C2
			4-pin micro DC connector	E57P-30UNN22-Q	E57P-30UNC22-Q

Compatible Connector Cables

Standard Cables ^①

Current Rating at 600 V	Voltage Style	Number of Pins	Gauge	Length	Pin Configuration/Wire Colors (Face View Female Shown)	PVC Jacket Catalog Number	PUR Jacket Catalog Number
Micro-Style, Straight Female							
—	DC	4-pin, 4-wire	22 AWG	6.0 ft (2m)		CSDS4A4CY2202	CSDS4A4RY2202

Accessories

E57P Performance Sensors

Description	Reference
Mounting brackets	See Tab 8, section 8.2
Replacement mounting nuts and other accessories	See Tab 8, section 8.3
Connector cables	See Tab 10, section 10.1

Notes

⊞ See listing of compatible connector cables on **Page V8-T3-20**.

① For cable lengths longer than 2 meters, add the number of the desired length in meters to the end of the listed catalog number (for catalog numbers ending with a number, add an **S** and then the length). Examples for a 5-meter cable: E57-18LE12-A becomes E57-18LE12-A**5**; E57LAL12A2 becomes E57LAL12A2**S5**.

② For a full selection of connector cables, see **Tab 10, section 10.1**.

Technical Data and Specifications

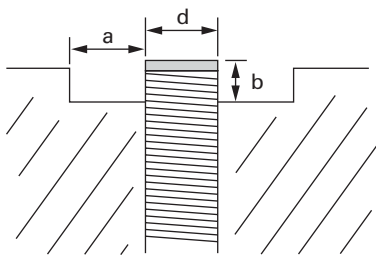
E57P Performance Sensors

Description	Performance Three-Wire DC Sensors
Operating voltage	10–48 Vdc
Output current (continuous)	300 mA
Switching frequency [Hz]	Standard range: 12 mm—Shielded: 2000; Unshielded: 2000 18 mm—Shielded: 1200; Unshielded: 1200 30 mm—Shielded: 600; Unshielded: 500 Extended range: 12 mm—Shielded: 1200; Unshielded: 500 18 mm—Shielded: 300; Unshielded: 300 30 mm—Shielded: 400; Unshielded: 200
Leakage current	<100 μ A
Output voltage drop [Vsat]	<2.5 V
Current consumption	<10 mA
Short-circuit protection	Yes (Auto Reset)
Hysteresis [% of Sr]	2–20%
Repeat accuracy	1% shielded, 3% unshielded
Time delay before availability	<200 ms
Output indicator LED	360° amber LED
Operating temperature range	–40 to 70 °C
Ingress protection	IEC IP67, IP69K, UL Type 1, NEMA Type 6P, NEMA Type 4X
Shock	30 g, 11 ms per IEC 68-2-76
Vibration	10 to 55 Hz, 1 mm amplitude
Housing materials	Front face: Rytan Tube: Stainless steel End bells: M12 body: Polycarbonate Cable end bell: Polycarbonate Nuts: Stainless steel
Cable	AWM style 20387 (PVC)

Recommended Mounting Clearances

For unshielded standard range sensors and extended range sensors, clearance must be provided around the sensor when mounting for reliable performance. (“Sn” is the sensing range of the sensor, “d” is the sensor diameter.)

E57P Performance Sensors, Mounting



Type	Shielding	a	b
Standard range	Shielded	0	0
	Unshielded	Cap height	2 x 5n
Extended range	Shielded	0	0
	Unshielded	Cap height	2 x Sn

Note

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① 40–240 Vac at <–4 °F (<–20 °C).