

Item	Model	E2C-GE4A	E2C-GF4A	E2C-JC4A E2C-JC4AP	E2C-AM4A	E2C-AK4A
Shock resistance	Destruction: 100 m/s ² 3 times each in X, Y, and Z directions					
Life expectancy	---					Mechanical: 10,000,000 operations min. Electrical: 100,000 operations min.
Connection method	Terminal block			Pre-wired Models (Standard cable length: 2 m)	Terminal block	
Weight (packed state) *4	Approx. 20 g			E2C-JC4A: Approx. 50 g E2C-JC4AP: Approx. 80 g	Approx. 140 g	Approx. 250 g
Accessories	Instruction manual			Caution labels, Mounting Bracket (E2C-JC4A: M3 × 15 Phillips mounting screw), instruction manual	Instruction manual	

*4. The weight of the Connection Socket is not included.

Heat-resistant Models

Sensors

Item	Model	E2C-X1R5AH	E2C-X2AH	E2C-X5AH
Detectable object	Ferrous metal (The sensing distance decreases with non-ferrous metal, refer to <i>Engineering Data</i> on page 7.)			
Standard sensing object	Iron, 8 × 8 × 1 mm	Iron, 12 × 12 × 1 mm	Iron, 18 × 18 × 1 mm	
Stable sensing area	0 to 1.5 mm	0 to 2 mm	0 to 5 mm	
Differential travel	0.04 mm max.			0.1 mm max.
Response frequency *1	300 Hz			
Ambient temperature range	Operating/Storage: −10 to 200°C (with no icing or condensation)			
Ambient humidity range	Operating/Storage: 35% to 95% (with no condensation)			
Temperature influence	±0.2%/°C			
Vibration resistance	Destruction: 10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions			
Shock resistance	Destruction: 500 m/s ² 3 times each in X, Y, and Z directions			
Degree of protection	IEC 60529 IP60 *2			
Connection method	Pre-wired Models (Cable length: 3 m) Heat-resistant, high-frequency coaxial cable			
Weight (packed state)	Approx. 50 g	Approx. 60 g	Approx. 140 g	
Materials	Case	Brass		
	Sensing surface	PEEK (polyether ether ketone)		
	Cable	Fluorine resin		
	Clamping nut	Brass, nickel-plated		
	Toothed washer	Iron, zinc-plated		

Note: Ratings and characteristic are given for 50% of the stable sensing area.
 *1. Measurement conditions are as follows: standard sensing object, a distance of twice the standard sensing object, and a set distance of half the sensing distance.

*2. Do not operate the Sensor in areas exposed to water vapor because the enclosure is not waterproof.

Amplifier Units

Item	Model	E2C-JC4CH	E2C-JC4DH	E2C-JC4EH
Power supply voltage *1 (operating voltage range)		12 to 24 VDC (10 to 30 VDC), ripple (p-p): 10% max.		
Current consumption		45 mA max.		
Sensing distance adjustment range *2		20% to 100% of rated sensing distance 4-turn potentiometer		
Control outputs	Load current	NPN open collector, 100 mA max. (30 VDC max.)		
	Residual voltage	0.8 V max.		
Indicators		Detection indicator (red)		
Operation mode		Changed with NO/NC switch.		
Cable length compensation		Switched between 3 and 5 m.		
Ambient temperature range		Operating/storage: -10 to 55°C (with no icing or condensation)		
Ambient humidity range		Operating/storage: 35% to 85% (with no condensation)		
Temperature influence		±0.08%/°C		
Voltage influence		±2% max. of sensing distance at rated voltage in the rated voltage ±20% range		
Insulation resistance		50 MΩ 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, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions		
Shock resistance		Destruction: 100 m/s² 3 times each in X, Y, and Z directions		
Degree of protection		IEC 60529 IP20		
Connection method		Pre-wired Models (Cable length: 2 m)		
Weight (packed state)		Approx. 80 g		
Accessories		Caution labels, Mounting Bracket, instruction manual		

*1. A full-wave rectification power supply of 24 VDC ±10% (average value) can be used.

*2. The sensing distance range required to maintain performed is given for using the Amplifier Unit in combination with the Sensor.