

E6C2-CWZ5B

Industrial automation components

Manufacturer	Omron
Catalog number	e6c2-cwz5b
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Weight	0.41 kgs
Supply Voltage	12 to 24 VDC
Output Type	PNP open collector
Resolution	1000 and 2000 P/R
Output Phases	A, B, and Z
Operating Temperature Range	-10 to 70 °C
IP Rating	IP64
Case Material	Zinc alloy
Main Unit Material	Aluminum
Shaft Material	SUS420J2 stainless steel

Description

The Omron E6C2-CWZ5B is a slim incremental rotary encoder with a 50 mm external diameter, designed for precise rotational position sensing in industrial automation applications. Operating within a supply voltage range of 12 to 24 VDC, it features a PNP open collector output and offers resolutions of 1000 and 2000 pulses per revolution (P/R), providing flexibility for various application requirements. The encoder is equipped with A, B, and Z output phases, ensuring compatibility with standard control systems. Its robust construction includes a zinc alloy case and an aluminum main unit, with a shaft made of SUS420J2 stainless steel, ensuring durability and reliability in demanding environments. The E6C2-CWZ5B operates effectively within an ambient temperature range of -10 to 70°C and has an IP64 rating, offering protection against dust and water ingress. This encoder is suitable for applications requiring precise rotational feedback, such as motor control, robotics, and automated machinery.