# **E63-WF**

CSM\_E63-WF\_DS\_E\_4\_4

## **Detects the Rotary Encoder Direction**

- Input phase difference signal from the Encoder to detect the direction of rotation.
- · High-speed response at 120 kHz.
- Mounts to DIN Track. Thin design enables superb mounting efficiency.
- Front-panel switch enables reversing phase Z logic. Enables connecting either voltage outputs or open-collector outputs.





Be sure to read Safety Precautions on page 3.

#### **Ordering Information**

Power supply voltage	Output configuration	Model
12 to 24 VDC	Open-collector output	E63-WF5C

### **Ratings and Specifications**

#### Direct Discrimination Unit [Refer to Dimensions on page 4.]

Item	Model	E63-WF5C	
Power supply voltage		12 VDC -10% to 24 VDC +15%, ripple (p-p): 5% max.	
Current c	rent consumption 50 mA max.		
Input	Input signal	Phases A, B, and Z (phase difference signals)	
	Phase difference	90° ±45° max.	
	ON	6 mA max. at 0 to 2 V	
	OFF	1.5 mA max. at 8 to 24 V	
	Input short current	9 mA	
	Max. applied voltage	30 V max.	
	Input impedance	Approx. 1 Ω	
Output	Output signal	UP/DOWN (direction detection), COUNTS output (count), OUT Z	
	Output configuration	Open-collector output	
	Output capacity	Applied voltage: 30 VDC max. Sink current: 80 mA max. Residual voltage: 1 V max. (at sink current of 80 mA) Residual voltage: 0.4 V max. (at sink current of 20 mA)	
Maximum frequenc	response y	120 kHz	
Output response time		2 μs max.	
Indicators		Power indicator (red), Phase Z output indicator (green)	
Ambient temperature range		Operating: -10 to 55°C (with no icing), Storage: -25 to 80°C (with no icing)	
Ambient	humidity range	Operating/Storage: 35% to 85% (with no condensation)	
Vibration	resistance	Destruction: 10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions	
Shock re	sistance	Destruction: 300 m/s <sup>2</sup> 3 times each in X, Y, and Z directions	
Connecti	on method	Terminal block	
Material		Case: ABS	
Weight (p	packed state)	Approx. 100 g	
Accessor	ries	Instruction manual (S3D8 Connector is not provided.)	