

Features

- Absolute encoder / absolute code output
- Digital output
- Sturdy construction
- Bushing mount
- Available with PC board mounting bracket (optional)
- *RoHS compliant

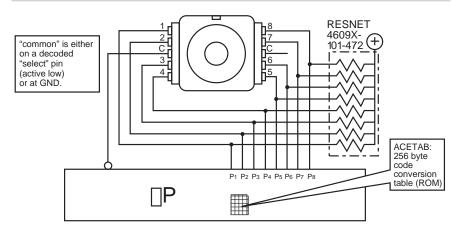
EAW - Absolute Contacting Encoder (ACE™)

General Information

Until now, the choice of an absolute encoder meant an expensive, and larger-sized product. Through the use of combinatorial mathematics, the absolute code pattern of the Bourns® Absolute Contacting Encoder (ACE™) is placed on a single track for a very economical, energy-efficient and compact product. Bourns® ACE™ provides an absolute digital output that will also retain its last position in the event of a power failure.

An intelligent alternative to incremental encoders and potentiometers, the Bourns® ACE™ is ideally suited for many industrial, medical and consumer product applications.

Recommended Control Diagram for ACE-128



Electrical Characteristics	
Output	8-bit code with 128 absolute states
Closed Circuit Resistance	
Open Circuit Resistance	
Contact Rating	
Insulation Resistance (500 VDC)	1,000 megohms minimum
Dielectric Withstanding Voltage (MIL-STD-202 Method 301)	
Sea Level	
Electrical Travel	
Contact Bounce (60 RPM)	
RPM (Operating)	120 maximum
Environmental Characteristics	
Operating Temperature Range	
Storage Temperature Range	
Humidity	
Vibration	
Contact Bounce	
Shock	
Contact Bounce Rotational Life.	
IP Rating	
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Mechanical Characteristics	
Mechanical Angle	
Running Torque	
Mounting Torque	
Shaft Side Load (Static)	
Weight	
Terminals	Printed circuit board terminals
Manual Soldering	96 55n/3 0Aa/0 5Cu solid wire or no-clean rosin cored wire
C .	370 °C (700 °E) may for 3 seconds
Wave Soldering	96 5Sn/3 0Ag/0 5Cu solder with no-clean ux
	260 °C (500 °F) max. for 5 seconds
Wash processes	
MarkingMai	nufacturer's name and trademark, part number, and date code.
HardwareOne lockwasher and one mounting nut are shipp	ped with each encoder, except where noted in the part number.
Packaging	



*High probability of missing quadrature codes with maximum bounce.