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Item # AZD-KED, AZ Series EtherCAT Compatible Driver (24/48 VDC)



AZ Series DC input Stored Data drivers now comes with EtherCAT communications for a battery-free, absolute mechanical sensor motor and driver solution. For use with all Oriental Motor AZ Series motors and linear & rotary actuators equipped with the AZ Ser

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Specifications

Lead Time¹	Contact your local sales office for product lead-times, available to ship dates and shipping methods.
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Driver Type	EtherCAT Compatible
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Power Supply	24/48 VDC
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Control Power Supply	24 VDC $\pm 5\%$, 0.25 A (0.5 A for Electromagnetic Brake)
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Interface - Pulse Input	2 points, Photocoupler Maximum input pulse frequency Scanner provides line driver output: 1 MHz (50% duty) Scanner provides open collector output: 250 kHz (50% duty)
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Interface - Control Input	6 points, Photocoupler
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Interface - Pulse Output	2 points, Line driver
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Interface - Control Output	6 points, Photocoupler/Open collector
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Interface - Power Shut Down Signal Input	2 points, Photocoupler
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Interface - Power Shut Down Monitor Output	1 point, Photocoupler/Open collector
Interface - Field Network	EtherCAT
Degree of Protection	IP10
Insulation Resistance (Driver)	When a 500 VDC megger is applied to the following locations, resistance is 100MΩ or higher. Between the PE terminal and main power supply terminal.
Ambient Temperature Range	0°C ~ +50°C (+32°F ~ +122°F) (nonfreezing)
Ambient Humidity	85% max. (noncondensing)
Operating Atmosphere	No corrosive gases or dust. Cannot be used in radioactive area, magnetic field, vacuum or other special environment.

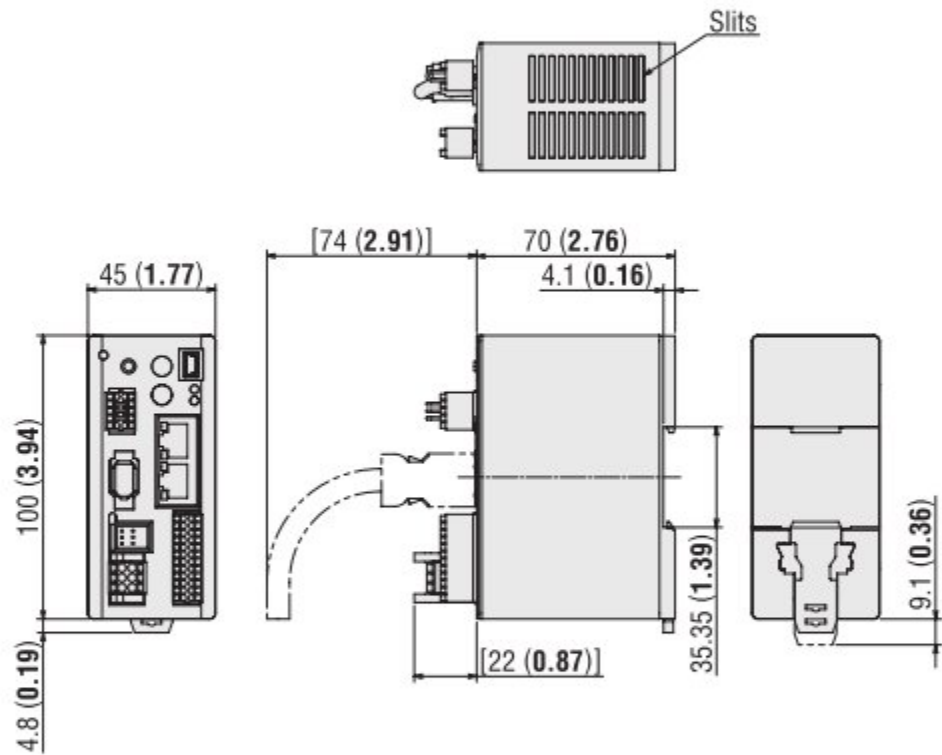
Communications

Communication Standards	IEC 61158 Type12
Physical Layer	100 BASE-TX (IEEE 802.3)
Transmission Rate	100 Mbps
Communication Cycle	Free Run Mode: 1 ms or more SM2 Event Synchronization Mode: 1 ms or more DC Mode: 0.25 ms, 0.5 ms, 1 ms, 2 ms, 3 ms, 4 ms, 5 ms, 6 ms, 7 ms, 8 ms
Communication Port	RJ45x2 (Shielded) ECAT IN: EtherCAT Input ECAT OUT: EtherCAT Output
Topology	Daisy Chain (Up to 65,535 Nodes)
Process Data	Variable PDO Mapping
Sync Manager	SM0: Mailbox Output SM1: Mailbox Input SM2: Process Data Output SM3: Process Data Input
Mailbox (CoE)	Emergency Message SDO Request SDO Response SDO Information
Synchronization Mode	Free Run Mode (Asynchronous) SM2 Event Synchronization Mode DC Mode (SYNC0 Event Synchronization)

■ Dimensions Unit: mm (in.)

2D & 3D CAD

Product Name	Mass kg (lb.)	2D CAD
AZD-KED	0.18 (0.40)	B1505



- Included
- Main Power Supply Connector (CN4)
Connector: DFMC1,5/3-ST-3,5-LR (Phoenix Contact)
- Control Power Supply Connector (CN1)
Connector: DFMC0,5/5-ST-2,54 (Phoenix Contact)
- I/O Signal Connector (CN7)
Connector: DFMC0,5/12-ST-2,54 (Phoenix Contact)

DC Input

■ System Configuration

● AZ Series with EtherCAT Drive Profile Compatible Driver

Motors, drivers, and a connection cable set/flexible connection cable set need to be ordered separately.

○ Purchase is required

○ Purchase as necessary

