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## Item # AZD-KRED, AZ Series mini EtherCAT Driver (DC Input)



The AZ Series mini Driver works with a variety of AlphaStep AZ Series, DC input products. This driver can be controlled by using EtherCAT drive profile, be daisy chained to maximize design and space, and improve installation time. The mini Driver is also designed to be close to the motor, making it ideal for Robotic type applications. The elimination of switches and I/O connectors allows for a compact and lightweight design. The mini Driver utilizes the MEXE02 Support Software, which is available for free download.

### Specifications

<b>Lead Time<sup>1</sup></b>	Contact your local sales office for product lead-times, available to ship dates and shipping methods.
<b>Driver Type</b>	EtherCAT Communications Type
<b>Power Supply</b>	24 / 48 VDC
<b>Main Power Supply Input Current</b>	0.4 ~ 3.7A (Refer to manual for details)
<b>Safety Standards</b>	UL CE

### EtherCAT Specifications

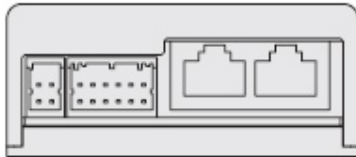
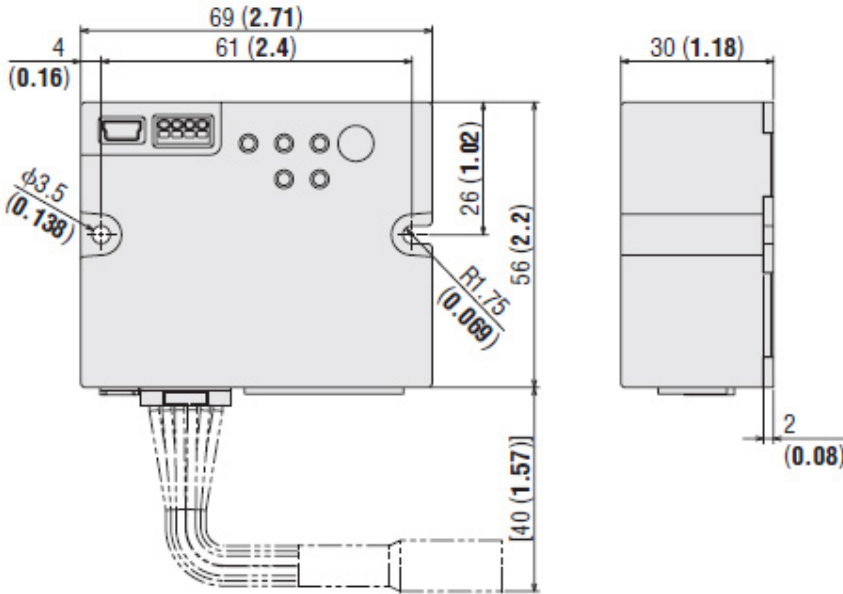
<b>Communication Standards</b>	IEC 61158 Type12
<b>Physical Layer</b>	100 BASE-TX (IEEE 802.3)
<b>Transmission Rate</b>	100 Mbps

Communication Cycle		Free Run Mode: 1 ms or more
		SM2 Event Synchronization Mode: 1 ms or more
Communication Port		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
Mailbox (CoE)		SM2: Process Data Output
		SM3: Process Data Input
Synchronization Mode		Emergency Message
		SDO Request
Device Profile		SDO Response
		SDO Information
Interface - Pulse Input		Free Run Mode (Asynchronous)
		SM2 Event Synchronization Mode
Interface - Field Network		DC Mode (SYNC0 Event Synchronization)
Interface - Pulse Input		IEC 61800-7 CiA402 Drive Profile
Interface - Field Network		2 points, Photocoupler
Interface - Field Network		EtherCAT

**■ Dimensions** Unit: mm (in.)

**2D & 3D CAD**

Type	Product Name	Mass kg (lb.)	2D CAD
EtherCAT Drive Profile-Compatible	<b>AZD-KRED</b>	0.11 (0.24)	B1541



- Applicable Connector
  - Power Connector (CN1)
  - Connector Housing: 1-1827864-2 (TE Connectivity)
  - Contact: 1827589-2 (TE Connectivity)

## System Configuration

When the Standard Type Electromagnetic Brake Motor is Combined with an EtherCAT Drive Pro Motors, drivers, and connection cables / flexible connection cables must be ordered separately.

- Must be purchased
- Purchase as necessary

### Driver

#### Note

The driver does not come with or for RS-485 communication.

·Motor: Purchasing an optional

·Power supply: Please either re connector.

For the connector part number, the operating manual.

### Support Software MEXE02



The support software MEXE02 can be downloaded from the Oriental Motor website.

Must be supplied by customer.

USB Cable

### Motor



DC Power Supply  
(Main power supply)

DC Power Supply  
(For control)

### Power Supply Cable



### Connection Cable



Host Controller

Must be supplied by customer.

EtherCAT Communication Cable

EtherCAT

Must be supplied by customer.

Input Signals