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Item # AZD-KPN, AZ Series PROFINET Compatible Driver (24/48 VDC)



α_{step}

AZ Series AC input drivers now comes with PROFINET 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 Series.

- Built-in Protective Functions
- Monitoring Functions
- Support Software for Paramater Setting (free download)
- For use with DC Input AZ Series Motors

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The GSD file used varies depending on the manufacturing date of the driver. Please check the name + more

Specifications | Communications | Dimensions | System | Product Number

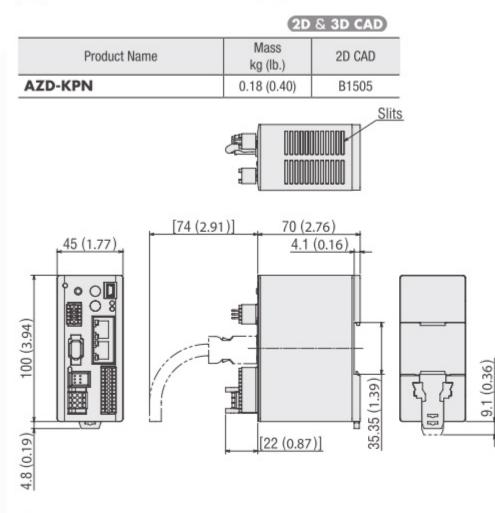
Spe	fications –			
	Lead Time ¹	Contact your local sales office for product lead-times, available to ship dates and shipping methods.		
	Driver Type	PROFINET Compatible		
	Power Supply	24/48 VDC		
	Control Power Supply	24 VDC ±5%, 0.25 A (0.5 A for Electromagnetic Brake)		
	Interface - Pulse Input	2 Inputs, Photocoupler Max Input Frequency Line Driver: 1 MHz (Duty Cycle 50%) Open Collector: 250kHz (Duty Cycle 50%)		
	Interface - Control Input	6 inputs, Photocoupler		
	Interface - Pulse Output	2 outputs, Line Driver		
	Interface - Control Output	6 outputs, Photocoupler/Open collector		

Interface - Power Shut Down Signal Input	2 inputs, Photocoupler
Interface - Power Shut Down Monitor Output	1 output, Photocoupler/Open collector
Interface - Field Network	PROFINET
Degree of Protection	IP10
Insulation Resistance (Driver)	When a 500 VDC megger is applied to the following locations, resistance is $100M\Omega$ 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 Protocol	PROFINET IO Ver.2.4
Vendor ID	0x33E: ORIENTAL MOTOR
Transmission Rate	100 Mbps (Autonegotiation)
Communication Method	Full Duplex (Autonegotiation)
Cable Specifications	Shielded Twisted Pair (STP) Cable Straight-through/Crossover Cable, Category 5e or higher
Communication Connector	RJ45 X 2 (Shielded)
Conformance Class	В
RT/IRT	RT
NetLoad Class	I
Protocol to be Supported	DCP, LLDP, SNMP, MRP* *varies depending on the driver used. Please refer to "Communications specifications" in the PROFINET Compatible Driver User Manual
Number of Occupied Bytes - Output (Host Controller > Driver)	40 bytes
Number of Occupied Bytes -Input (Driver > Host Controller)	56 bytes
Network Topologies	Star, Tree, Line, Ring* *varies depending on the driver used. Please refer to "Communications specifications" in the PROFINET Compatible Driver User Manual

Dimensions Unit: mm (in.)



Included

Control Power Supply Connector (CN1) Connector: DDFMC0,5/5-ST-2,54 (PH0ENIX CONTACT GmbH & Co. KG)

Main Power Supply Connector (CN4)

Connector: DFMC1,5/3-ST-3,5-LR (PHOENIX CONTACT GmbH & Co. KG)

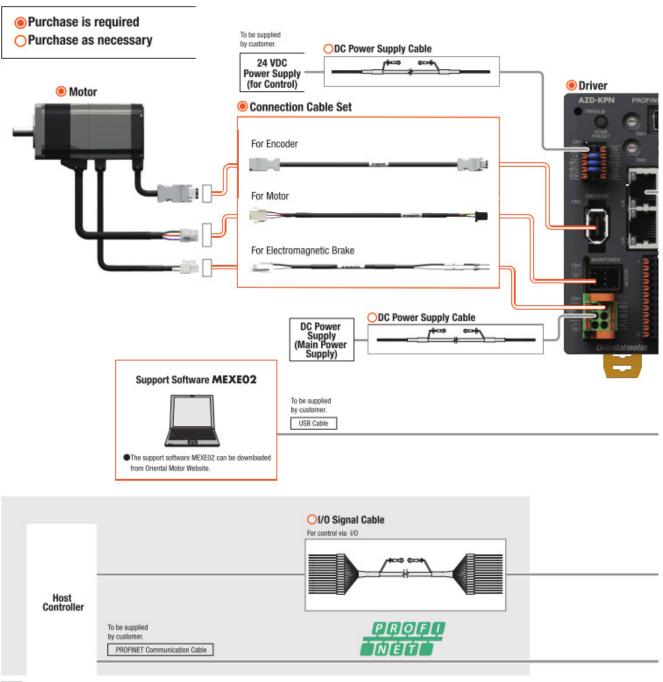
I/O Signal Connector (CN7)

Connector: DDFMC0,5/12-ST-2,54 (PHOENIX CONTACT GmbH & Co. KG)

System Configuration

When combining with DC input PROFINET compatible driver

This is an example of a system configuration when the PROFINET compatible driver is used with I/O control or via PROFINET communication. A motor, a driver, and a connection cable set/flexible connection cable set are required to purchase separately.



Note

The motor cable and electromagnetic brake cable from the motor cannot be connected directly to the driver. Use connection cables to connect to the driver.

F	Product Name						
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(1 2	3					
1	Driver Type	AZD: AZ Series Driver					
2	Power Supply Input	K: 24/48 VDC					
3	Network Type	PN: PROFINET					



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