

Nexus® Combustion Efficiency Systems Positioning Servos



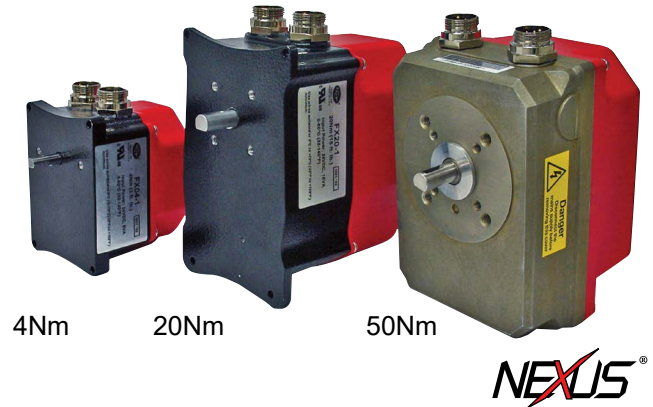
FX Series Servos

FX04-1 / FX20-1 / FX50-1

Class I, Division 2, Groups A, B, C & D Certified

Available for use with custom industrial applications

Use a Programmable Logic Controller (PLC) to connect to the FX Series servo using the Modbus RTU protocol via RS-485. Connect up to 10 servos in a point-to-point wiring configuration on any single communication port.



Features

- Simple procedure for commanding a position and receiving feedback from the servo
- Drive speed selected via PLC; speeds for up to 30 seconds for 90 degree travel are available
- Diagnostic information to help troubleshoot any issues that may arise
- Powered from standard industrial 24VDC power supply
- D-shaft and face tapings allow for easy mounting to couplers and brackets
- Available in three sizes: 4Nm (3 ft.-lb.), 20Nm (15 ft.-lb.) and 50Nm (37 ft.-lb.)

Technical Specifications

	FX04-1 (4Nm)	FX20-1 (20Nm)	FX50-1 (50Nm)
Supply Voltage	24VDC +/-10%	24VDC +/-10%	24VDC +/-10%
Normal Torque	3 lbs-ft / 4Nm	15 lbs-ft / 20Nm	37 lbs-ft / 50Nm
Holding Torque	<3 lbs-ft / 4Nm	8 lbs-ft / 10Nm	19 lbs-ft / 20Nm
Power Consumption	5 VA Nominal	15 VA Nominal	20 VA Nominal
Working Temperature Range	-4° to 140°F (-20° to 60°C) 100% duty cycle	-4° to 140°F (-20° to 60°C) 100% duty cycle	-4° to 140°F (-20° to 60°C) 100% duty cycle
Protection Category	NEMA 4 / IP65	NEMA 4 / IP65	NEMA 4 / IP65
Maximum Angle Rotation	100°	100°	100°
Rotation Limits	Software	Software	Software
Feedback Potentiometer	Single turn conductive plastic, 1KΩ +/- 1% linearity	Single turn conductive plastic, 1KΩ +/- 1% linearity	Single turn conductive plastic, 1KΩ +/- 1% linearity
Nominal Dimensions	4.59" (116.8mm) high x 3.27" (83.1mm) wide x 4.91" (124.7mm) deep	6.51" (165.4mm) high x 4.08" (103.5mm) wide x 7.24" (183.7mm) deep	5.36" (136mm) high x 4.76" (121mm) wide x 7.31" (185.8mm) deep
Weight	2.27 lbs (1.03kg)	5.43 lbs (2.46kg)	6.10 lbs (2.77kg)
Installation Position	Any	Any	Any

For more information, please [contact](#) your local Fireye Distributor.

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