

Integrated Motion Modules

SERCOS Interface Modules

The SERCOS interface modules use a single, digital fiber-optic link, which eliminates as many as 18 digital wires per axis. Detailed drive-status information can be sent from drive to controller and from controller to drive.

The SERCOS interface modules can connect to these servo drives:

- 2093 Kinetix 2000 multi-axis servo drive
- 2094 Kinetix 6000 multi-axis servo drive
- 2099 Kinetix 7000 high-power servo drive
- 2098 Ultra3000 SERCOS servo drive

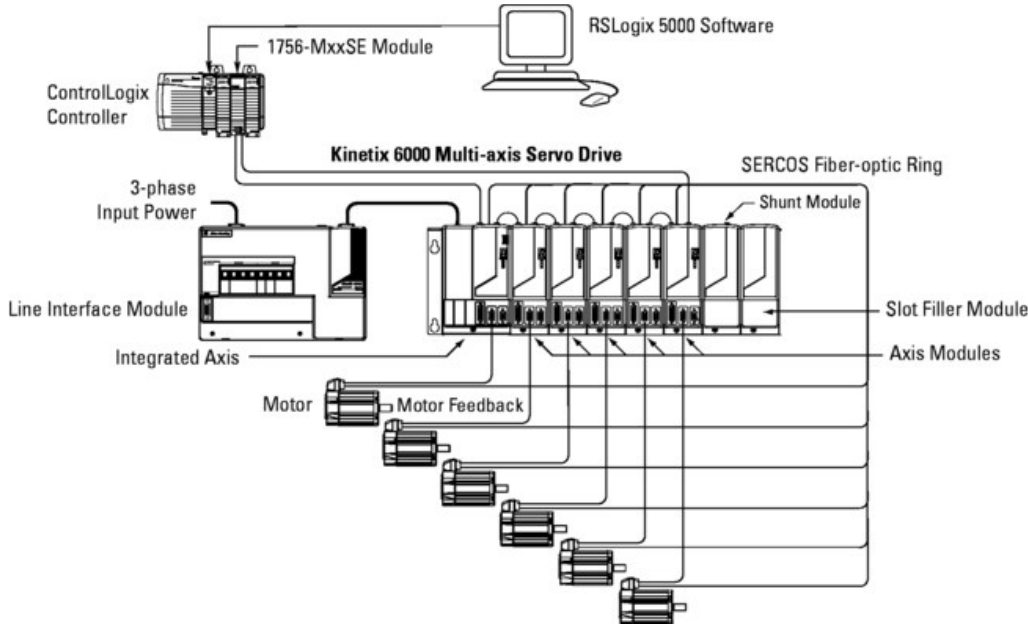


SERCOS Interface Modules

Specifications [PDF]

Cat. No.	Description	Number of Axes
1756-M16SE	Rockwell Automation SERCOS interface module	16
1756-M08SE		8
1756-M03SE		3
1756-M08SEG	SERCOS interface module Extended Pack Profile compliant	8

Example Configuration—SERCOS Interface Module



Accessories—SERCOS Interface Modules

Both the transmitter and receiver connections use an F-SMA standard plug that conforms to the F-SMA screw type connector.

Select one of these fiber optic cables to connect the SERCOS interface module to the drive.

	Plastic Fiber Optic	Glass Fiber Optic
Transmission range	1...32 m	1...200 m
Core diameter	980 µm ±60 µm	200 µm ±4 µm
Cladding diameter	1000 µm ±60 µm	230 µm +0/-10 µm
Cable attenuation	140 dB/km @ 650 nm	6 dB/km @ 820 nm
Operating temperature	-55...85 °C	-20...85 °C
Connector	F-SMA standard screw-type	F-SMA standard screw-type
Bend radius	2.5 cm	2.5 cm

Fiber Optic Cables

Location: Electrical cabinet

Type: Non-jacketed (Chlorinated Polyethylene)

Plastic Fiber Optic Cables

Length	Cat. No.	Length	Cat. No.
1 m (39 in.)	2090-SCEP1-0	15 m (591 in.)	2090-SCEP15-0
3 m (118 in.)	2090-SCEP3-0	20 m (787 in.)	2090-SCEP20-0
5 m (197 in.)	2090-SCEP5-0	25 m (984 in.)	2090-SCEP25-0
8 m (315 in.)	2090-SCEP8-0	32 m (1260 in.)	2090-SCEP32-0
10 m (394 in.)	2090-SCEP10-0		

Location: Normal environments outside of an electrical cabinet

Type: Standard jacket (Polyvinyl Chloride)

Plastic Fiber Optic Cables

Length	Cat. No.
1 m (39 in.)	2090-SCVP1-0
3 m (118 in.)	2090-SCVP3-0
5 m (197 in.)	2090-SCVP5-0
8 m (315 in.)	2090-SCVP8-0
10 m (394 in.)	2090-SCVP10-0
15 m (591 in.)	2090-SCVP15-0
20 m (787 in.)	2090-SCVP20-0
25 m (984 in.)	2090-SCVP25-0
32 m (1260 in.)	2090-SCVP32-0

Glass Fiber Optic Cables

Length	Cat. No.
1 m (39 in.)	2090-SCVG1-0
3 m (118 in.)	2090-SCVG3-0
5 m (197 in.)	2090-SCVG5-0
8 m (315 in.)	2090-SCVG8-0
10 m (394 in.)	2090-SCVG10-0
15 m (591 in.)	2090-SCVG15-0
20 m (787 in.)	2090-SCVG20-0
25 m (984 in.)	2090-SCVG25-0
32 m (1260 in.)	2090-SCVG32-0
50 m (1970 in.)	2090-SCVG50-0
100 m (3937 in.)	2090-SCVG100-0

Location: Harsh environment

Type: Nylon jacket

Plastic Fiber Optic Cables

Length	Cat. No.	Length	Cat. No.
1 m (39 in.)	2090-SCNP1-0	15 m (591 in.)	2090-SCNP15-0
3 m (118 in.)	2090-SCNP3-0	20 m (787 in.)	2090-SCNP20-0
5 m (197 in.)	2090-SCNP5-0	25 m (984 in.)	2090-SCNP25-0
8 m (315 in.)	2090-SCNP8-0	32 m (1260 in.)	2090-SCNP32-0
10 m (394 in.)	2090-SCNP10-0		