

FSFP Series Transceivers

INTERCHANGEABLE SMALL FORM-FACTOR PLUGGABLE MODULES

Product Features

- Interchangeable FSFP Transceivers to Match Media Type, Fiber Count, Fiber Path Length, and Connector Type
- Operating Temperature of -40° to 75°C (-40° to 167°F)
- No Performance Adjustments Required
- Multi-Source Agreement (MSA) Compliant
- Compliant with IEEE 802.3 Standards



FSFP-EFMM2LC2

The **FSFP Series** transceivers are MSA-compliant, small form-factor pluggable (FSFP) modules that allow for an optical or copper interface when using a Pelco unmanaged switch or media converter. These interchangeable FSFP transceivers are available for use with unshielded twisted pair (UTP) cable, multimode optical fiber, or single-mode optical fiber. The optical **FSFP Series** transceivers are available in Fast Ethernet one- and two-fiber versions, and Gigabit Ethernet one- and two-fiber versions. The transceivers are available with RJ-45, LC, or SC ports, and offer wavelengths and optical power budgets to meet distance requirements from 500 meters to 120 kilometers (984 ft to 74.5 mi). The **FSFP Series** transceivers are industrially rated to perform in the most difficult operating environments. The Pelco FSFP interface is required for use with all Pelco FSFP configurable products to qualify for the manufacturer’s warranty.

The **FSFP Series** transceivers are ideal for transportation, airport, and college campus applications.

TECHNICAL SPECIFICATIONS

MODELS

Transmitter/Receiver	Data Rate (Mbps)	Transmission Medium*	Number of Fibers	Connector Type	Maximum Transmission Distance	Transmit/Receive Wavelength	TX Power (dBm)	RX Sensitivity (dBm)	Opt. Loss Budget (dB)	Model Number
Either	10/100/1000	Copper	N/A	RJ-45	IEEE 802.3	N/A	N/A	N/A	N/A	FSFP-EGRJ45
	100	Single Mode	2	LC	20 km (12.4 mi)	1310 nm	-15	≤-31	16	FSFP-EFSM2LC20
				LC	40 km (24.9 mi)	1310 nm	-14	≤-34	20	FSFP-EFSM2LC40
		LC		80 km (49.7 mi)	1550 nm	-5	≤-31	26	FSFP-EFSM2LC80	
		LC		2 km (1.2 mi)	1310 nm	-19	≤-30	11	FSFP-EFMM2LC2	
	1000	Single Mode		LC	15 km (9.3 mi)	1310 nm	-8	≤-24	16	FSFP-EGSM2LC15
				LC	40 km (24.9 mi)	1310 nm	-5	≤-24	19	FSFP-EGSM2LC40
		LC		70 km (43.5 mi)	1550 nm	0	≤-24	24	FSFP-EGSM2LC70	
		LC		120 km (74.5 mi)	1550 nm	0	≤-32	32	FSFP-EGSM2LC120	
				Multimode	LC	550 m† (1804.5 ft)	850 nm	-9.5	≤-17	7.5
Transmitter	100	Single Mode		1	LC	20 km (12.4 mi)	1310 nm/1550 nm	-14	≤-33	19
			LC		60 km (37.3 mi)	1310 nm/1550 nm	-5	≤-34	29	FSFP-AFSM1LC60
		SC	60 km (37.3 mi)		1310 nm/1550 nm	-5	≤-34	29	FSFP-AFSM1SC60	
		SC	20 km (12.4 mi)		1310 nm/1550 nm	-15	≤-34	19	FSFP-AFSM1SC20	
	1000	Multimode	SC		2 km (1.2 mi)	1310 nm/1550 nm	-15	≤-30	15	FSFP-AFMM1SC2
			LC		20 km (12.4 mi)	1310 nm/1550 nm	-8	≤-22	14	FSFP-AGSM1LC20
		Single Mode	LC		60 km (37.3 mi)	1310 nm/1550 nm	-1	≤-26	25	FSFP-AGSM1LC60
			SC		20 km (12.4 mi)	1310 nm/1550 nm	-8	≤-22	14	FSFP-AGSM1SC20
			SC		60 km (37.3 mi)	1310 nm/1550 nm	-1	≤-26	25	FSFP-AGSM1SC60
			LC		20 km (12.4 mi)	1550 nm/1310 nm	-14	≤-33	19	FSFP-BFSM1LC20
Receiver	100	Single Mode	1	LC	60 km (37.3 mi)	1550 nm/1310 nm	-6	≤-34	28	FSFP-BFSM1LC60
				SC	60 km (37.3 mi)	1550 nm/1310 nm	-6	≤-34	28	FSFP-BFSM1SC60
		SC		20 km (12.4 mi)	1550 nm/1310 nm	-15	≤-34	19	FSFP-BFSM1SC20	
		SC		2 km (1.2 mi)	1550 nm/1310 nm	-15	≤-30	15	FSFP-BFMM1SC2	
	1000	Multimode		LC	20 km (12.4 mi)	1550 nm/1310 nm	-8	≤-22	14	FSFP-BGSM1LC20
				LC	60 km (37.3 mi)	1550 nm/1310 nm	-3	≤-26	23	FSFP-BGSM1LC60
		Single Mode		SC	20 km (12.4 mi)	1550 nm/1310 nm	-8	≤-22	14	FSFP-BGSM1SC20
				SC	60 km (37.3 mi)	1550 nm/1310 nm	-3	≤-26	23	FSFP-BGSM1SC60

*Multimode fiber must meet or exceed fiber standard ITU-T G.651. Single mode fiber must meet or exceed fiber standard ITU-T G.652.

† 550 m (1804.5 ft) using laser-optimized 50/125µm fiber; 300 m (984.2 ft) using 62.5/125µm fiber.

CERTIFICATIONS/RATINGS

- CE, Class E
- FCC, Part 15
- UL Listed
- IEEE 802.3
- Complies with 21 CFP 1040.10 and 1040.11

Pelco by Schneider Electric

3500 Pelco Way, Clovis, California 93612-5699 United States

USA & Canada Tel (800) 289-9100 Fax (800) 289-9150

International Tel +1 (559) 292-1981 Fax +1 (559) 348-1120

www.pelco.com www.pelco.com/community

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