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

Trans-mitter/ Receiver	Data Rate (Mbps)	Trans-mission 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
		Multimode		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	FSFP-EGMM2LC.55
Transmitter	100	Single Mode	1	LC	20 km (12.4 mi)	1310 nm/1550 nm	–14	≤–33	19	FSFP-AFSM1LC20
				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
		Multimode		SC	2 km (1.2 mi)	1310 nm/1550 nm	–15	≤–30	15	FSFP-AFMM1SC2
	1000	Single Mode		LC	20 km (12.4 mi)	1310 nm/1550 nm	–8	≤–22	14	FSFP-AGSM1LC20
				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
Receiver	100	Single Mode	1	LC	20 km (12.4 mi)	1550 nm/1310 nm	–14	≤–33	19	FSFP-BFSM1LC20
				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
		Multimode		SC	2 km (1.2 mi)	1550 nm/1310 nm	–15	≤–30	15	FSFP-BFMM1SC2
	1000	Single Mode		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
				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

⚠**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov.
⚠**ADVERTENCIA:** Cáncer y Daño Reproductivo - www.P65Warnings.ca.gov.
⚠**AVERTISSEMENT:** Cancer et Troubles de l'appareil reproducteur - www.P65Warnings.ca.gov.

Pelco, Inc.
625 W. Alluvial, Fresno, California 93711 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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