



Fig.1: M-FSM45

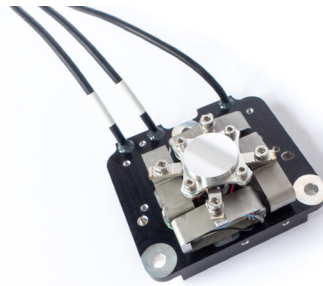


Fig.2: P-FSM150S

REFERENCE	TECHNOLOGY	ACTUATOR TYPE	POSITION SENSORS	ANGULAR STROKE <sup>(1)</sup>	RES. FREQ. <sup>(2)</sup>	MIRROR SUBSTRATE	MIRROR COATING	REFLECTIVITY	RWE <sup>(3)</sup>
Pico-FSM35XS-Al-8mm	Piezoelectric	APA®	Strain gauges	12 mrad	1800 Hz	Aluminum Φ8mm	Aluminum	> 85% [300nm to 700nm]	λ/10
P-FSM35XS-SiO2-15mm	Piezoelectric	APA®	Strain gauges	5 mrad	1200 Hz	SiO2 Φ15mm	Aluminum	> 85% [300nm to 700nm]	λ/10
P-FSM35XS-SiC-17mm	Piezoelectric	APA®	Strain gauges	5 mrad	1240 Hz	SiC Φ17mm	Silver or Gold	> 95% [450nm to 2300nm]	λ/20
P-FSM35XS-SiC-30mm	Piezoelectric	APA®	Strain gauges	5 mrad	1270 Hz	SiC Φ30mm	Silver or Gold	> 95% [450nm to 2300nm]	λ/20
P-FSM60SM-SiO2-15mm	Piezoelectric	APA®	Strain gauges	10 mrad	1350 Hz	SiO2 Φ15mm	Aluminum	> 85% [300nm to 700nm]	λ/10
P-FSM60SM-SiC-17mm	Piezoelectric	APA®	Strain gauges	10 mrad	1440 Hz	SiC Φ17mm	Silver or Gold	> 95% [450nm to 2300nm]	λ/20
P-FSM150S-SiO2-15mm	Piezoelectric	APA®	Strain gauges	18 mrad	750 Hz	SiO2 Φ15mm	Aluminum	> 85% [300nm to 700nm]	λ/10
P-FSM150S-SiC-17mm <sup>(4)</sup>	Piezoelectric	APA®	Strain gauges	18 mrad	750 Hz	SiC Φ17mm	Silver or Gold	> 95% [450nm to 2300nm]	λ/20
M-FSM45-SiO2-15mm	Magnetic	MICA™	Eddy currents	50 mrad	100 Hz	SiO2 Φ15mm	Aluminum	> 85% [300nm to 700nm]	λ/10
M-FSM45-SiC-17mm	Magnetic	MICA™	Eddy currents	50 mrad	100 Hz	SiC Φ17mm	Silver or Gold	> 95% [450nm to 2300nm]	λ/20
M-FSM45-SiC-HP-17mm <sup>(4)</sup>	Magnetic	MICA™	Eddy currents	50 mrad	100 Hz	SiC Φ17mm	Dielectric	> 99,5% at 1064 nm	λ/20
M-FSM62-SiC-30mm	Magnetic	MICA™	Eddy currents	140 mrad <sup>(5)</sup>	90 Hz	SiC Φ30mm	Silver	> 95% [450nm to 2300nm]	λ/20

(1) Peak to peak stroke in open & closed loop at ambient

(2) Actuation resonance frequency

(3) Reflected Wave Front Error, measure at λ = 633nm and 0° angle of incidence at mirror manufacturing

(4) Space constellation version available for optical communication

(5) Limited to 70 mrad with internal ECS sensors option

> **Related drive electronics**



Fig.3: CCBu20



Fig.4: CCBu40



Fig.5: MCSA480



Fig.6: MCLA18



Fig.7: ECS 45



Fig.8: CMAμ10