

PZT Actuators
PZT Flexure NanoPositioners
PZT Active Optics / Steering Mirrors
Tutorial: Piezoelectrics...
Capacitive Position Sensors
PZT Control Electronics
MicroPositioners / Hexapod Systems
Photonics Alignment & Packaging Systems
Motor Controllers
Index

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Ordering Information

F-130.3SD

XYZ Alignment System, 5 mm, 100 µm, DC Motor/Encoder, C/L Piezo

F-130.3SS

XYZ Alignment System, 5 mm, 100 µm, Stepper Motor, C/L Piezo

F-130.3OD

XYZ Alignment System 5 mm, 100 µm, DC Motor/Encoder, O/L Piezo

F-130.3OS

XYZ Alignment System, 5 mm, 100 µm, Stepper Motor, O/L Piezo

F-131.3SD

XYZ Alignment System, 15 mm, 100 µm, DC Motor/Encoder, C/L Piezo

F-131.3SS

XYZ Alignment System, 15 mm, 100 µm, Stepper Motor, C/L Piezo

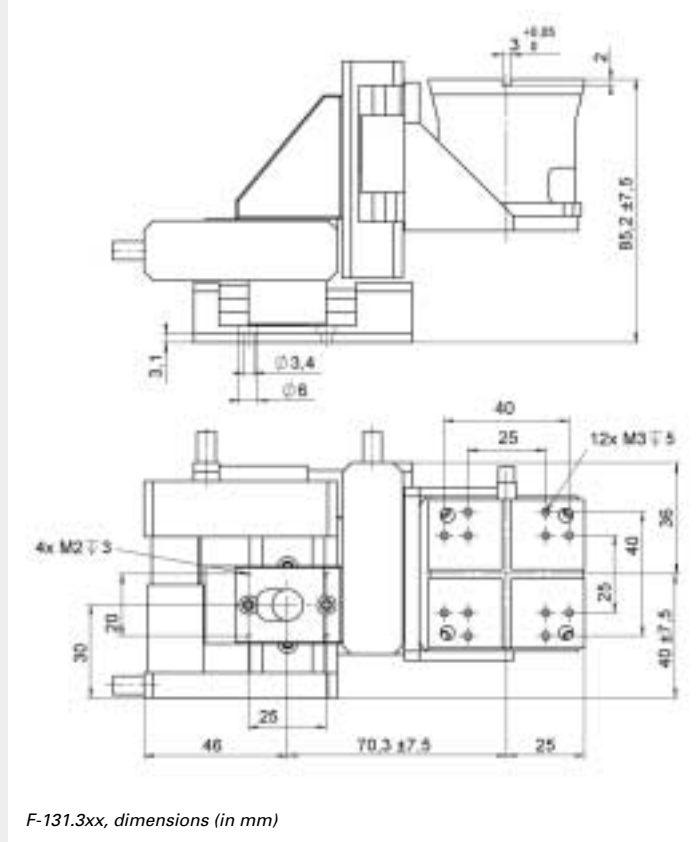
F-131.3OD

XYZ Alignment System, 15 mm, 100 µm, DC Motor/Encoder, O/L Piezo

F-131.3OS

XYZ Alignment System, 15 mm, 100 µm, Stepper Motor, O/L Piezo

Custom Designs for Volume Buyers



F-131.3xx, dimensions (in mm)

The C-880 Multi-axis automation platform is recommended as controller for the F-130/F-131.



Technical Data

Models	F-130.3SD	F-130.3SS	F-130.3OD	F-130.3OS	F-131.3SD	F-131.3SS	F-131.3OD	F-131.3OS	Units	Notes see p. 7-96
Key features	Closed-loop DC motors, closed-loop PZT drives	Stepper motors, closed-loop PZT drives	Closed-loop DC motors, open-loop PZT drives	Stepper motors, open-loop PZT drives	Closed-loop DC motors, closed-loop PZT drives	Stepper motors, closed-loop PZT drives	Closed-loop DC motors, open-loop PZT drives	Stepper motors, open-loop PZT drives		
Active axes	X,Y,Z	X,Y,Z	X,Y,Z	X,Y,Z	X,Y,Z	X,Y,Z	X,Y,Z	X,Y,Z		
Motorized travel range (XYZ)	5	5	5	5	15	15	15	15	mm	
Piezo travel range (XYZ)	100	100	100	100	100	100	100	100	µm	
Design resolution (motor)	0.007	0.006	0.007	0.006	0.007	0.006	0.007	0.006	µm	A3
Min. incremental motion (motor)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	µm	A4
Closed-loop / open-loop resolution (PZT)	2/1	2/1	- / 1	- / 1	2/1	2/1	- / 1	- / 1	nm	
Motorized stage	M-110.3DG	M-110.32S	M-110.3DG	M-110.32S	M-111.3DG	M-111.32S	M-111.3DG	M-111.32S		see p. 7-30
PZT drive	P-611.3SF	P-611.3SF	P-611.3OF	P-611.3OF	P-611.3SF	P-611.3SF	P-611.3OF	P-611.3OF		see p. 8-16
Material	Al	Al	Al	Al	Al	Al	Al	Al		L
Recommended controller (see page 9-6)	C-880		C-880		C-880		C-880			