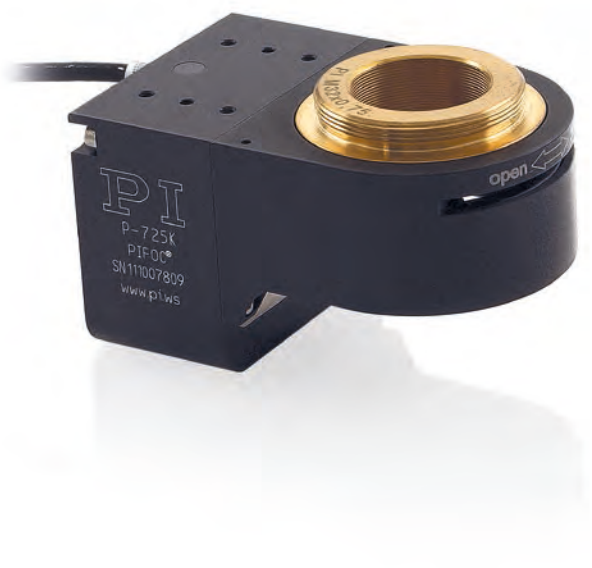
PIFOC® Objective Scanner with High Dynamics

NANOMETER RESOLUTION FOR HEAVY OBJECTIVES



P-725KHDS

- Travel range 400 µm
- Resonant frequency 120 Hz, with 400 g load
- Step-and-settle 20 ms, with 400 g load
- QuickLock thread adapters up to M32

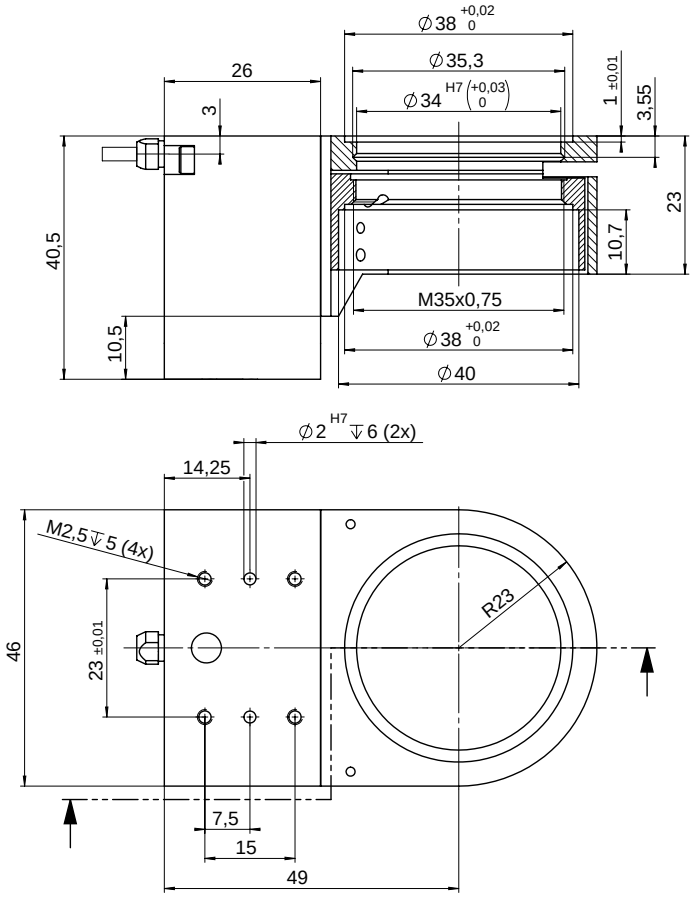
PIFOC® objective scanner
1 axis. Frictionless flexure-guided design. Capacitive position sensor for maximum stability and linearity. QuickLock adapter for easy attachment

PICMA® high-performance piezo drive
Piezoceramic actuators with all-ceramic insulation. Longer lifetime, humidity resistance and operating temperatures to 80°C

Fields of application
Microscopy, confocal microscopy, 3D imaging, screening, autofocus systems, surface analysis. Ideal for multiphoton microscopy due to high dynamics at heavy loads

Preliminary data	P-725KHDS	Unit
Active axes	Z	
Motion and positioning		
Integrated sensor	Capacitive	
Closed-loop travel	400	µm
Closed-loop resolution	2.5	nm
Linearity error in X, Y	0.06	%
Mechanical properties		
Stiffness	0.35	N/µm
Unloaded resonant frequency in X	330	Hz
Loaded resonant frequency in X, 100 g	230	Hz
Loaded resonant frequency in X, 400 g	120	Hz
Load capacity	10	N
Drive properties		
Piezo ceramic	PICMA® P-887	
Electrical capacitance in X , Y	6.4	µF
Miscellaneous		
Operating temperature range	10 to 50	°C
Material	Aluminum	
Cable length	1.5	m
Connector	Sub-D Special 1 channel	
Recommended controller	E-709.CHG	

Ask about custom designs!



P-725KHDS, dimensions in mm