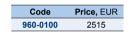
960-0100

MOTORIZED DELAY LINE



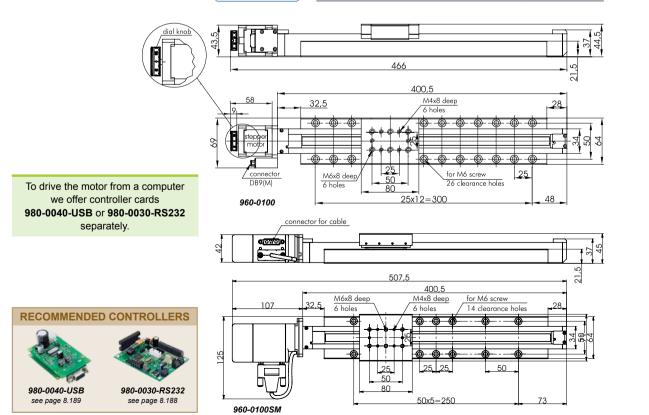
- 300 mm travel range
- Steel rail design. Stability and rigidity ensured
- 2.5 µm nominal resolution
- Recirculating ball modules are incorporated in the platform
- Stepper motor with 200 steps per revolution



*Test condition: Stepper motor 4247: 2 phase bipolar wiring, phase resistance 3.2 Q, 200 steps per revolution; step angle – 1.8°, current – 1.2 A, 36 V; 980-0030 controller. Motorized Delay Line 960-0100 provides precision path delays of up to 300 mm. Driven by a stepper motor with integrated limit switches, the motorized delay line offers a high-resolution delay of 2.5 μ m. The main feature of this delay line are its high-stability, compact and monolithic design as well as high resolution which makes the device ideal for integration in high precision measurement systems. Such delay line is in great demand in laboratories for precision optical path length control or other experiments (spectrum analysis, interferometry, etc.). Motorized delay line can be controlled manually by means of dial knob with increments located on the end of the stage. This device also could be considered as a long travel (300 mm) motorized translation stage. Resolution could be improved by means of steps division in motor using our up-to-date stepper motor controllers.

SPECIFICATIONS

Model	960-0100	960-0100SM
Travel range	300 mm	
Resolution in full step	2.5 µm	-
Resolution in 1-8 step	0.31 µm	-
Encoder resolution	-	4000 counts/rev.
Lead screw pitch	0.5 mm	2 mm
Max. speed	8 mm/s*	50 mm/s
Minimal incremental motion	-	0.5 µm
Load capacity		
Horizontal	10 kg	
Vertical	3 kg	
Supply voltage	36 V	
Motor connector	DB9(M)	RS232
Motor	4247	SM
Weight	4.28 kg	4.55 kg
Recommended controllers	980-0040-USB 980-0030-RS232	Computer
Mechanical end limit switches	2 (pushed is closed)	



MEKSMA

OPTICS