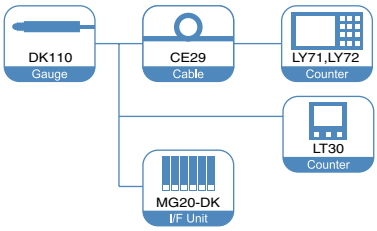
DK

DK110

High accuracy gauge with controllable measuring force

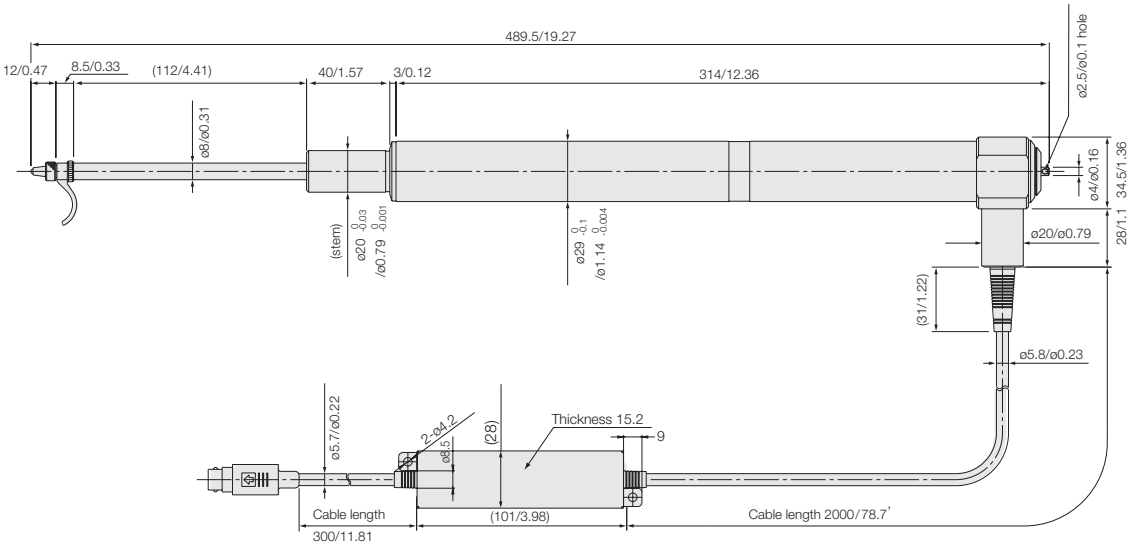
- Measuring range :110 mm / 4.33" ● Accuracy: 4 μm ● Resolution: 0.5 μm
- Direct connected to A/B quadrature counter ● Reduced measurement error
- Precision dual spindle support allows for a smooth spindle motion and virtually error free measurements.
- Reduced measuring force
  The measuring force can be reduced to a minimum of 0.3 N in three selectable steps using the measuring balancer (option). The force is maintained constant regardless of spindle movement direction.
- Soft spindle return. A braking mechanism reduces spindle return speed, therby eliminating the danger of damaging either the surface plate or the workpiece.



*Digital gauge stand DZ-531 and Measuring force balancer DZ-581 are option.

Digital Gauge

Dimensions



Unit : mm/inch

Specifications

Model	DK110NLR5
Output	A/B/Z phase voltage-differential line driver output (compliant with EIA-422) *Please see P17 Output Signal Phase Difference.
Resolution*1	0.5 μm
Measuring range	110 mm
Accuracy (at 20℃)	4 μm
Reference point	One location (at 5 mm position of spindle movement)
Maximum response speed	250 m/min
Vibration resistance (10 to 2000 Hz)	150 m/s²
Impact resistance (11 ms)	1500 m/s²
Protective structure	IP50
Operating temperature	0℃ to 50℃
Storage temperature	-20℃ to 60℃
Power supply voltage	DC +5 V ±5%
Power consumption	1 W or less
Cable length*2	Approx. 2.5 m
Diameter of stem	ø20 0 -0.013 mm
Mass*3	Approx. 800 g
Feeler	DZ-121 (Mount screw M2.5)
Output cable length	22 m max.
Guaranteed number of Strokes	Minimum 5 million cycles without shock
Accessories	+P M4x5 screw (2 pcs.), feeler DZ-121, lift lever DZ-161, Instruction Manual

*1 : The resolution setting needs to be made when connecting to the LT30 series, MG series, and LY70 series. For details, please refer to the respective instruction manual.
*2 : Please refer to P10 DK 802 A/B about the extension cable (Option).
*3 : The mass indicated is the total mass excluding the cable and interpolation box.