

DIGITAL GAUGE

The DK series is a slim, compact Digital Gauge Provides high resolution (0.1 μ m), high accuracy (±0.5 μ m) linear measurement for a variety of applications.

Measuring range: 2mm or 12mm
Built-in reference point
Vacuum retract, spring push or pneumatic push
Robust design for harsh environments (IP66)
Flange mount available

Linear over entire stroke
TTL Output. Easily connects to a PC,
PLC or to Sony's "MG" series of Multi-interface units.







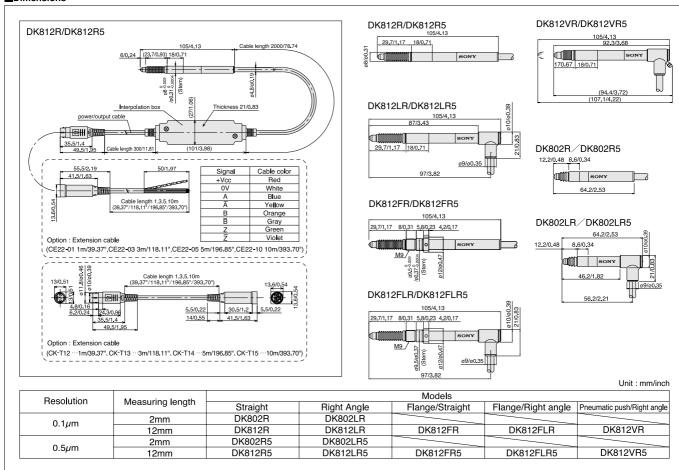


Specifications

DK812R,DK812LR,DK812FR,DK812FLR, DK812VR,DK802R,DK802LR		DK812R5,DK812LR5,DK812FR5,DK812FLR5, DK812VR5,DK802R5,DK802LR5
A / B / Z Quadrature (Line Driver EIA-422 or equivalent)		
2mm/12mm		
0.1 <i>µ</i> m		0.5 <i>µ</i> m
100ns		
±0.5µm		±0.8µm
Measuring range : 2mm	Downward : 0.45±0.25N Lateral : 0.40±0.25N Upward : 0.35±0.25N	Downward : 0.6±0.3N Measuring range : 12mm Lateral : 0.5±0.3N Upward : 0.4±0.3N
1 (1mm from spindle start)		
42n	n/min	100m/min
carbide ball ø3 (Moun	ting screw: M2.5x0.45)	steel ball ø3 (Mounting screw: M2.5x0.45)
Vacuum retraction (type LR) Pneumatic push (type VR)		
100m/s²(10~2000Hz)		
1000m/s²(11ms)		
IP66 (not including Interpolation box and connector)		
0∼50°C(Interpolation box: 0∼40°C)		
-20~60°C		
+5VDC±5% *2		
1.8W		
Approx. 20g (measuring range: 2mm) Approx. 30g (measuring range: 12mm)		
12m max. (Cable length to subsequent electronics)		
	DK812VR,DK 0.1 ±0. Measuring range : 2mm 42n	DK812VR,DK802R,DK802LR

- *1 : Contact us for models with a larger phase difference.
- *2 : The power supply should be between +5V and +5.25V with cable fully extended.
- *3 : Cable and Interpolation box are not included.

■Dimensions



⚠ Safety notice: Prior to use, be absolutely certain to read and understand the Operating Instruction to ensure proper use of this product.

• Specifications and dimensions listed in this brochure are subject to change without notice due to product improvement.

Sony Manufacturing Systems Corporation

Sony Manufacturing Systems Corporation Measuring Systems Sales Dept. Suzukawa 45 Isehara-shi, Kanagawa-ken, 259-1146, Japan Tel: +81-463-92-7971 Fax: +81-463-92-7979 http://www.sonysms.co.jp

Sony Taiwan Limited FA Marketing Group 6F, 145 Changchun Road, Taipei 104, Taiwan Tel: +886-2-2522-9760 Fax: +886-2-2522-2396 http://www.sony.com.tw/company/family/FA/FA.asp Sony Manufacturing Systems America.Inc. 20381 Hermana Circle Lake Forest,California 92630-8701 Tel: +1-949-770-8400 Fax: +1-949-770-8408 http://www.sonysms.com Sony Manufacturing Systems Europe

Sony Manufacturing Systems Europe Semiconductor & Electronic Solutions Measuring Systems Heddelfinger Strasse 61. D-70327 Stuttgart, Germany Tel: +49-711-5858-777 Fax: +49-711-580-715 http://www.sonymanufacturing.com

