

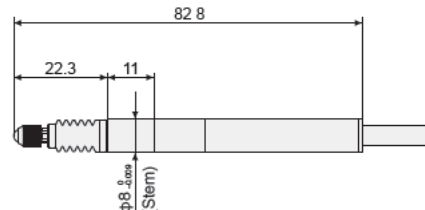
DK DK805S

* DK805SAR/DK805SAR5/DK805SBR/DK805SBR5

Resolution 0.1μm Resolution 0.5μm Stem φ8 Stroke 5mm Output A/B phase

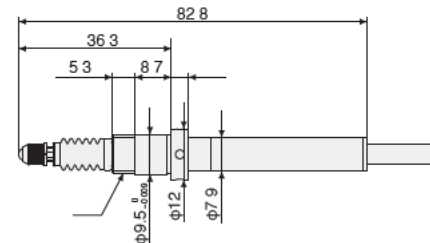


DK805SAR/DK805SAR5
DK805SBR/DK805SBR5

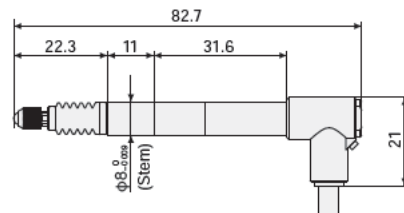


* Upon installation, clamp the stem.

DK805SAFR/DK805SAFR5
DK805SBFR/DK805SBFR5

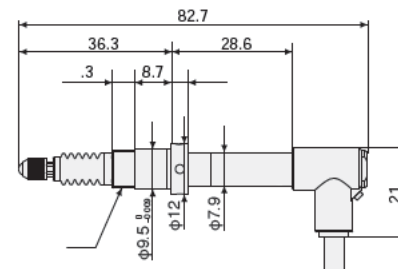


DK805SALR/DK805SALR5
DK805SBLR/DK805SBLR5

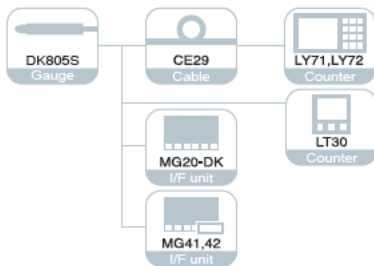


* Upon installation, clamp the stem.

DK805SAFLR/DK805SAFLR5
DK805SBFLR/DK805SBFLR5



Unit: mm



Specifications

| Model | High-resolution models | | General-purpose resolution models | |
|--------------------------------------|--|--|--|--|
| | DK805SAR, DK805SALR DK805SAFR, DK805SAFLR | DK805SBR, DK805SBLR DK805SBFR, DK805SBFLR | DK805SAR5, DK805SALR5 DK805SAFR5, DK805SAFLR5 | DK805SBR5, DK805SBLR5 DK805SBFR5, DK805SBFLR5 |
| Measuring range | 5 mm | | | |
| Maximum resolution | 0.1 μm | | 0.5 μm | |
| Accuracy (at 20°C/68°F) | 1 μm | | 1.5 μm | |
| Measuring force (at 20°C/68°F) | Upward: 0.35±0.25 N Horizontal: 0.40±0.25 N Downward: 0.45±0.25 N | | | |
| Maximum response speed | 80 m/min | 42 m/min | 250 m/min | 100 m/min |
| Reference point | Position at spindle movement of 1mm | | | |
| Reference-point response speed | Same as the noted maximum response speed | | | |
| Output | A/B/reference point Voltage-differential line driver output (conforming to E A-422) | | | |
| Spindle drive system | Spring push Vacuum suction (DK805SALR/SAFLR/SBLR/SBFLR/SALR5/SAFLR5/SBLR5/SBFLR5) | | | |
| Number of cycles tested ¹ | 60 million | | | |
| Protection grade ² | Straight model P66, right-angle model P64 (P67 ³) | | | |
| Vibration resistance | 20 to 2000 Hz 100 m/s ² | | | |
| Impact resistance | 1000 m/s ² 11 ms | | | |
| Operating temperature | 0 to 50 °C | | | |
| Storage temperature | -20 to 60 °C | | | |
| Power supply | 5 VDC±5 % | | | |
| Power consumption | 1 W | | | |
| Mass | Approx. 30 g | | | |
| Output cable length | 2.4 m | | | |
| Feeler | Carbide ball tip, Mounting screw M2.5 | | Steel ball tip, Mounting screw M2.5 | |
| Accessories | Instruction Manual, +P M4 × 5 screw (2pc), tightening nut, clamp spanner, wave washer, mounting pin 1 each (DK8**S*F** only) Hose elbow 1 pc (DK8**S*L** only), one spanner | | | |

1 Under specific test conditions defined by Magnescape Co., Ltd. 2 Excluding the interpolation box and connector
3 When φ4 mm tube is connected for right-angle model 4 Excluding cable section and interpolation box