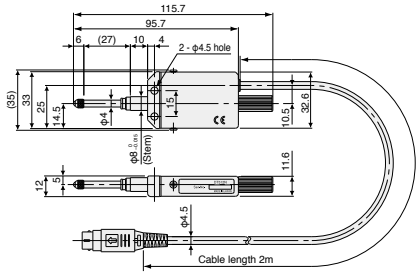
DT DT512/12

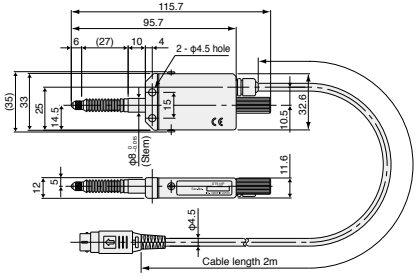
Resolution 1μm | Resolution 5μm | Stem φ8 | Stroke 12mm

DT512N/12N



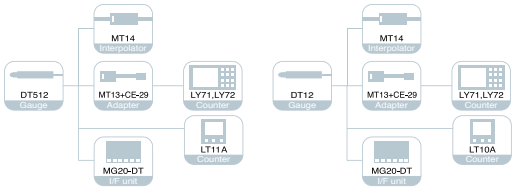
* Upon installation, clamp the stem.

DT512P/12P



* Upon installation, clamp the stem.

Unit: mm



Specifications

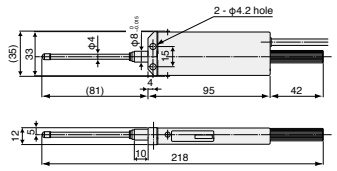
Model	Standard model	Protected type model	Standard model	Protected type model
	DT512N	DT512P	DT12N	DT12P
Measuring range	12 mm			
Maximum resolution	1 μm		5 μm	
Accuracy (at 20°C/68°F)	6 μm		10 μm	
Measuring force (at 20°C/68°F)	Upward: 0.7±0.5 N Horizontal: 0.8±0.5 N Downward: 0.9±0.5 N	1.7 N or less in all directions	Upward: 0.7±0.5 N Horizontal: 0.8±0.5 N Downward: 0.9±0.5 N	1.7 N or less in all directions
Maximum response speed	Depending on unit to be connected			
Reference point	None			
Spindle drive system	Spring push-out			
Achieved number of strokes*1	5 million			
Protection grade*2	—	IP64 or equivalent	—	IP64 or equivalent
Operating temperature	0 to 50 °C			
Storage temperature	−10 to 60 °C			
Mass*3	Approx. 75 g	Approx. 80 g	Approx. 75 g	Approx. 80 g
Output cable length	2 m			
Feeler	Steel ball tip, Mounting screw M2.5			
Accessories	Instruction Manual			

*1 Under specific test conditions defined by Magnescale Co., Ltd.
*2 Excluding the connector
*3 Excluding cable section

DT DT32

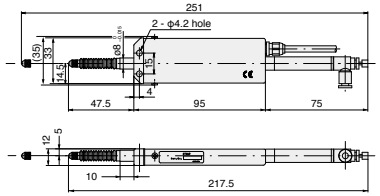
Resolution 5μm | Stem φ8 | Stroke 32mm

DT32N



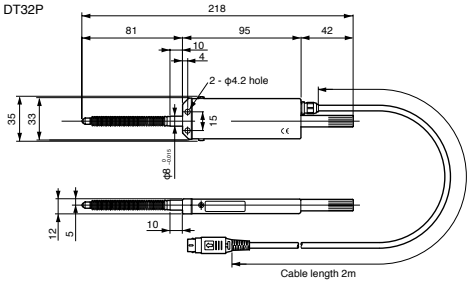
* Upon installation, clamp the stem.

DT32PV

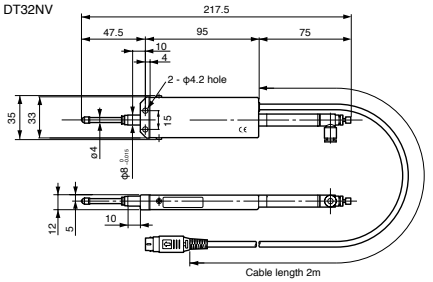


* Upon installation, clamp the stem.

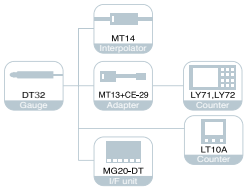
DT32P



DT32NV



Unit: mm



Specifications

Model	Standard model		Protected type model	
	DT32N	DT32NV	DT32P	DT32PV
Measuring range	32 mm			
Maximum resolution	5 μm			
Accuracy (at 20°C/68°F)	10 μm			
Measuring force (at 20°C/68°F)	*1 Upward: 1.1±0.8 N Horizontal: 1.3±0.8 N Downward: 1.5±0.8 N		2.9 N or less in all directions	*2 9 N in all directions
Maximum response speed	Depending on unit to be connected			
Reference point	None			
Spindle drive system	Spring push-out	Pneumatic push	Spring push-out	Pneumatic push
Achieved number of strokes*3	5 million			
Protection grade*4	—		IP64 or equivalent	
Operating temperature	0 to 50 °C			
Storage temperature	−10 to 60 °C			
Mass*5	Approx. 120 g	Approx. 140 g	Approx. 120 g	Approx. 140 g
Output cable length	2 m			
Feeler	Provided with a steel ball tip, Mounting screw M2.5			
Accessories	Instruction Manual			

*1 At input air pressure of 1.96 × 105 Pa with speed controller open (DT32N) *2 At input air pressure of 2.35 × 105 Pa with speed controller open
*3 Based on the Magnescale-specified evaluation method *4 Excluding the connector *5 Excluding cable section