

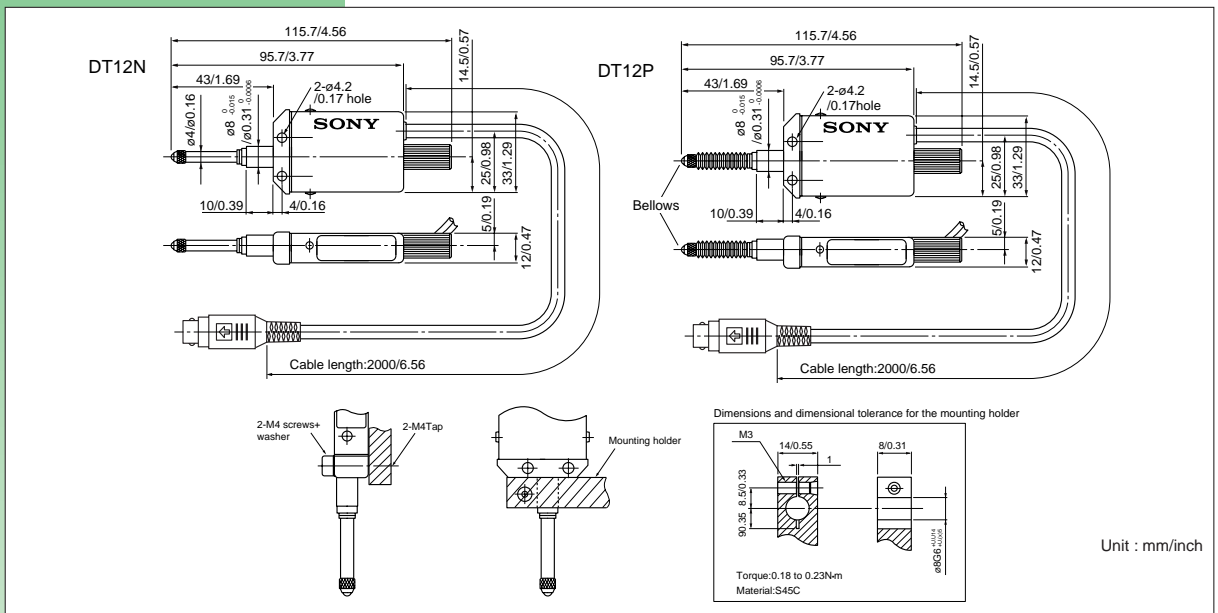
Compact and slim gauges

- Magnetic principle
- Excellent resistance to workshop conditions (DT12P : IP64)
Resistant to oil and dust
- Accuracy : $\pm 5 \mu\text{m}$
- Resolution : $5 \mu\text{m}$
- Measuring range : 12 mm / 0.47"
- Compact size ideal for designing into machines
12 x 34 x 116 mm / 0.47" x 1.34" x 4.57" (D x W x L)

Specifications

Model	DT12N	DT12P
Measuring range	12 mm / 0.47"	
Resolution	5 μm	
Accuracy (at 20 °C / 68 °F)	$\pm 5 \mu\text{m}$	
Measuring force	Upward	0.7 \pm 0.5 N
	Lateral	0.8 \pm 0.5 N
	Downward	0.9 \pm 0.5 N
Protective design grade	—	
Mounting stem diameter	$\phi 8 \text{ }_{0.015}^{\text{H}}$ mm	
Operating temperature	0 °C to 50 °C / 32 °F to 122 °F	
Storage temperature	-10 °C to 60 °C / 14 °F to 140 °F	
Cable length	2 m / 6.56'	
Feeler	Feeler tipped with 3 mm dia. steel ball with M2.5 x 0.45 screw on fitting end	
Mass (excl. cable unit)	75 g / 2.6 oz	80 g / 2.8 oz
Guaranteed number of strokes	5 million	

Dimensions

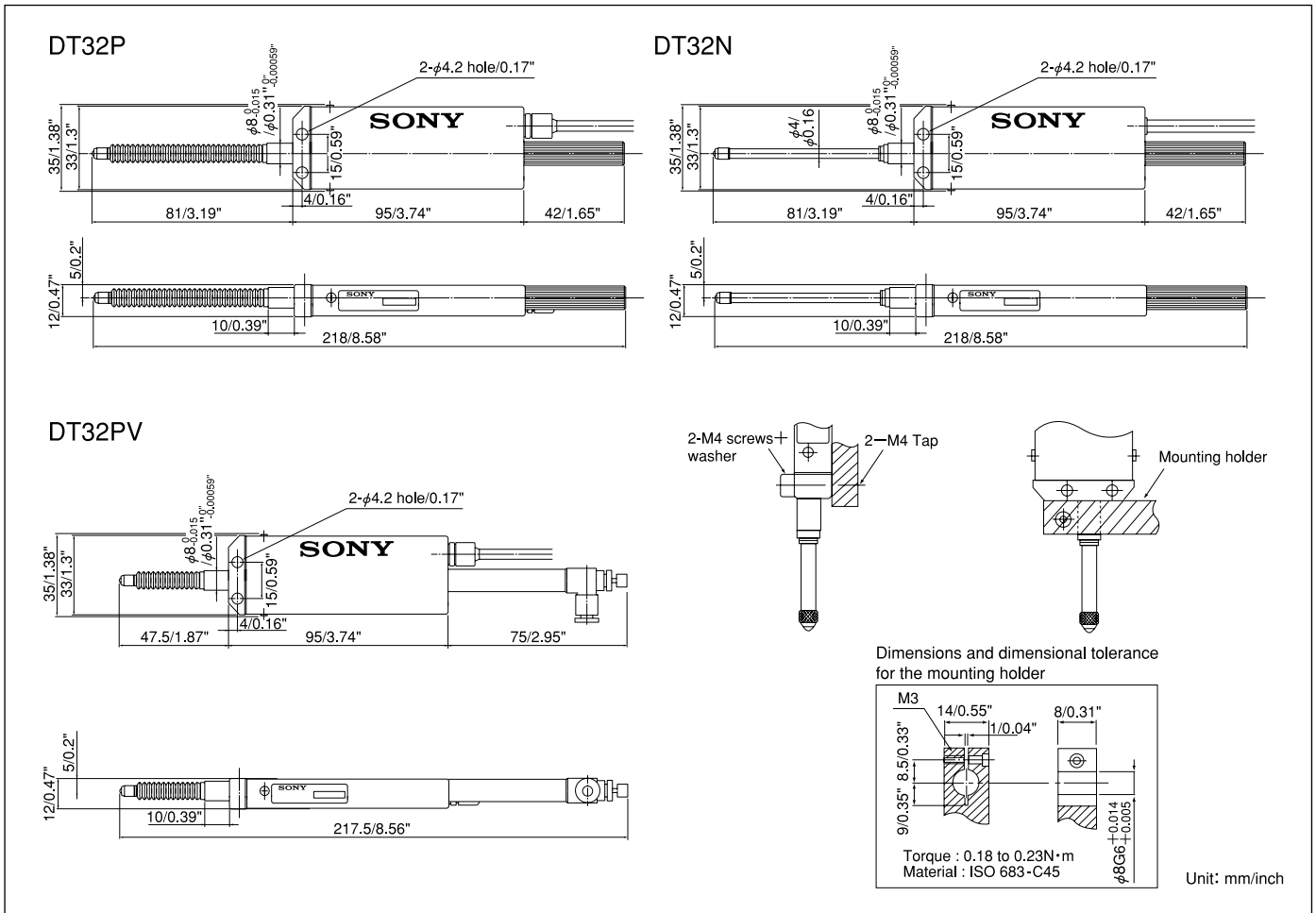


Specifications

Model	DT32N	DT32NV	DT32P	DT32PV
Spindle actuation	—	Pneumatic push type	—	Pneumatic push type
Measuring range	32mm/1.26"			
Resolution	5 μ m			
Measuring force (at 20°C/68°F)	Downward: 1.1 \pm 0.8N Lateral: 1.3 \pm 0.8N Upward: 1.5 \pm 0.8N	*1 Downward: 1.1 \pm 0.8N Lateral: 1.3 \pm 0.8N Upward: 1.5 \pm 0.8N	All directions: 2.9N or less	*2 All directions: 9N or less
Accuracy (at 20°C/68°F)	\pm 5 μ m			
Operating temperature	0°C to 50°C/32°F to 122°F			
Storage temperature	-10°C to 60°C/14°F to 140°F			
Cable length	2m/6.56'			
Mounting stem diameter	ϕ 8 $^{+0.015}_{-0.015}$ mm/ ϕ 0.31 $^{+0.00059}_{-0.00059}$ "			
Feeler	Feeler tipped with 3 mm/0.12" dia. steel ball with M2.5 \times 0.45 screw on fitting end			
Power consumption	0.08W			
Mass (excl.cable unit)	120g/4.23oz	140g/4.9oz	120g/4.23oz	140g/4.9oz
Protective design grade	Equivalent to IP64			
Guaranteed number of strokes	5 million			

*1 Measuring force with air pressure of 1.96 x 10⁵ Pa and speed control is open *2 Measuring force with air pressure of 2.35 x 10⁵ Pa and speed control is open

Dimensions



Option

[DT Series]

- Extension cable: CE08-01 (1m) -03 (3m) -05 (5m) -10 (10m) -15 (15m)
- Roller type feeler: DZ-100 ● Coupling: DZ-191

* Designs and appearances are subject to change without prior notice.

Sony Precision Technology Inc.

Toyo Building, 9-17, Nishigotanda 3-chome, Shinagawa-ku, Tokyo, 141-0031 Japan
Phone: +81-3-3490-9481 Fax +81-3-3490-8028

<http://www.sonympt.co.jp/>

SONY is a registered trademark, and is used by Sony Precision Technology Inc. under license from Sony Corporation.

Description of this brochure is based on the specifications as of February 2002.



These products are manufactured at our Isehara Plant that is certified to ISO9001 Quality Management System and ISO14001 Environmental Management System.



Printed on 100% recyclable paper using VOC-free vegetable oil based ink.

2002.2.CX-688-B-CP Catalog No.688 ©SONY Printed in Japan

DT512N/P

Compact and slim gauges with 1 μm resolution

- Magnetic principle
- Excellent resistance to workshop conditions (DT512P: IP64)
- Resistant to oil and dust
- Accuracy: ± 3 μm
- Resolution: 1 μm
- Measuring range: 12 mm / 0.47"
- Compact size ideal for designing into machines
12 x 34 x 116 mm / 0.47" x 1.34" x 4.57" (D x W x L)

Specifications

Model	DT512N	DT512P
Measuring range	12 mm/0.47"	
Resolution	1 μm	
Accuracy (at 20 °C /68 °F)	± 3 μm	
Measuring force	Upward	0.7 ± 0.5 N
	Lateral	0.8 ± 0.5 N
	Downward	0.9 ± 0.5 N
Protective design grade	Equivalent to IP64	
Mounting stem diameter	ø 8 ^{±0.015} mm	
Operating temperature	0 °C to 50 °C /32 °F to 122 °F	
Storage temperature	-10 °C to 60 °C /14 °F to 140 °F	
Cable length	2 m/6.56'	
Feeler	Feeler tipped with 3 mm dia. steel ball with M2.5 x 0.45 screw on fitting end	
Mass (excl. cable unit)	75 g / 2.6 oz	80 g / 2.8 oz
Guaranteed number of strokes	5 million	

Dimensions

