

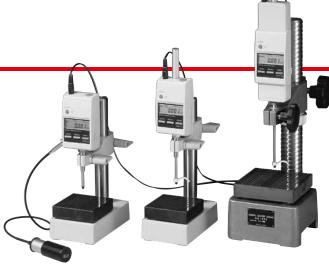








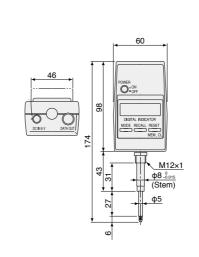
Series

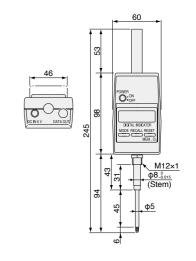


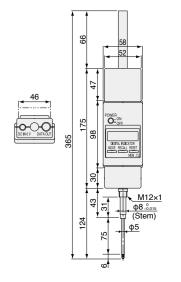
 * Set bushing DZ-811 (optional) is required to use U60B with gauging stand DZ-501.

* The air release and the gauging stand are optional accessories.

U12B U30B U60B







Unit: mm

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DT(MT)

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Specifications				
Model	U12B	U30B	U60B	
Measuring range	12 mm	30 mm	60 mm	
Maximum resolution		1 μm		
Accuracy (at 20°C/68°F)	2 μ	3 µm		
Measuring force (at 20°C/68°F)	1.3 N or less	1.5 N or less	2.2 N or less	
Travel length of the release	Full s	troke	32 mm	
Display		LCD display element (6 digits, minus display)		
Maximum response speed		0.4 m/s (24 m/min)		
Operating temperature	0 to 40°C (no condensation)			
Storage temperature		-10 to 50°C (no condensation)		
Power supply	6 VDC±10 9	% (With DC IN jack) 6 to 9 VDC±10 % (With data cone	ecctor used)	
Power consumption	1 W			
Mass	Approx. 190 g	Approx. 230 g	Approx. 300 g	
Feeler	Carbide ball tip, Mounting screw M2.5			
Accessories	Instruction Manual, AC adapter av	ailable (We DO NOT provide an AC adaptor with these	.), lift lever, and dedicated spanner	

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MT12 /13

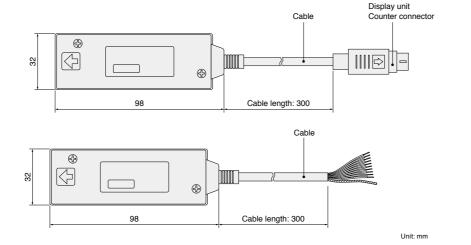
Measuring unit connector

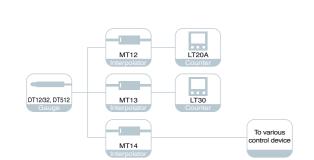


MT14 Counter connector



* Connection of the DT Series enables A/B phase output.





Phase differ	Phase difference for phase A/B output						
Model	MT□□-01	MT01 MT05 MT10 0		Output phase difference (μs)			
Velocity: v (m/min)	0< v ≤2.5 0< v ≤12.5 0< v ≤25		20				
	2.5< v ≤6.25 12.5< v ≤31.25 25< v ≤62.5 8						
	6.25< v ≤12	31.25< v ≤60	62.5< v ≤(100)*	5			
	12< v ≤24	60< v ≤(100)*	_	2.5			
	24< v ≤60	_	_	1			
	60< v ≤(100)*	_	_	0.5			

* An alarm is output at a traveling velocity of 100 to 115 m/min. The sampling frequency of the output signal is 120 μ s.

MT12	MT13	MT14
A, B, ALARM	A, B Ā, Ē	A, B, ALARM Ā, Ē, ĀLARM

Output signal: Phase A/B Alarm output format: NPN open collector output (max. rated voltage: 31 V, max. rated current: 50 m/					
Pin no.	Description	Cable color			
1	+5 V	Red			
2	_	_			
3	0 V	Black			
4	Α	Yellow			
5	В	Blue			
6	_	_			
7	_	_			
8	ALARM	Gray			
9	0 V	Purple			
10	0 V	Orange			
Case	FG	Shield			

*	Connector used: Hosiden TCP8938 or equivalent product 0 V a
	the shield (FG) are connected via a capacitor. Nothing should be
	connected to cables with colors not found in this table.

Cable color MT13 utput signal: Phase A/B (The output becomes High impedance during an alarm.) utput format: Voltage-differential line driver output (compliant with EIA-422)							
Pin no. Description Cable color							
1	+5 V	Purple					
2	0 V	Black					
3	A	Blue					
4	Ā	Yellow					
5	В	Orange					
6	B	Gray					
7	_	_					
8	_	_					
Case	FG	Shield					

^{*} Connector used: Hosiden TCP6182 or equivalent product 0 V and the shield (FG) are connected via a capacitor. Nothing should be connected to cables with colors not found in this table.

Cable color MT14 Output signal: A/B phase, alarm (The output do Output format: Voltage-differential line driver	nes not become High impedance during an alarm output (compliant with EIA-422)
Description	Cable color
+5 V	Red
0 V	White
0 V	Brown
0 V	Black
A	Yellow
Ā	Blue
В	Gray
B	Orange
ALARM	Purple
ALARM	Green
FG	Shield

* 0 V and the shield (FG) are connected with a capacitor.

Specifications								
Model	MT12-05	MT12-10	MT13-01	MT13-05	MT13-10	MT14-01	MT14-05	MT14-10
Compatible measuring units	DT512, DT12/DT32							
Maximum response speed	100 m/min							
Resolution	5 μm	10 μm	1 μm	5 μm	10 μm	1 μm	5 μm	10 μm
Power voltage	5 VDC±5 %							
Power consumption	0.9 W 1.2 W (when output load of 120Ω is connected)							
Output format	Open collector A/B Voltage-differential line driver							
Operating temperature and humidity range	0 to 50 °C (No condensation)							
Storage temperature and humidity range	-10 to 60 °C (20 to 90 %RH)							
Mass	Approx. 90 g							

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