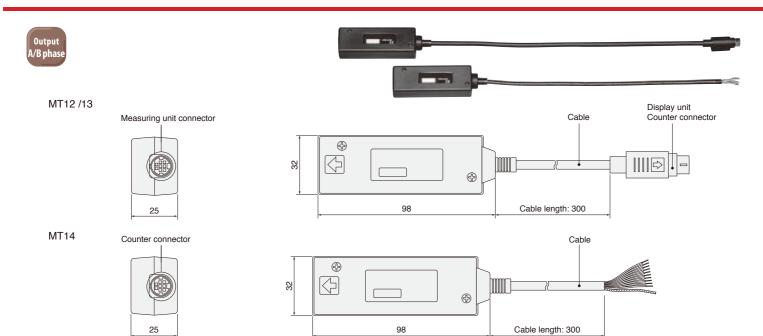
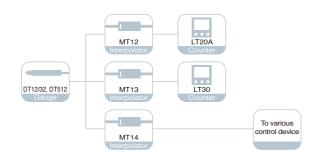
MT12/13/14

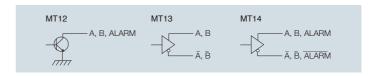


^{*} Connection of the DT Series enables A/B phase output



Phase difference for phase A/B output						
Model	MT□□-01	MT□□-05	MT □ □ -10	Output phase difference (µs)		
Velocity: v (m/min)	0< v ≤2.5	0< v ≤12.5	0< v ≤12.5 0< v ≤25			
	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		

 $^{^{\}star}$ 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.



Cable color MT12 Output signal: Phase A/B Alarm output format: NPN open collector output (max. rated voltage: 31 V, max. rated current: 50 mA)					
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 and the shield (FG) are connected via a capacitor. Nothing should be connected to cables with colors not found in this table.

Cable color MT13

Output signal: Phase A/B (The output becomes High impedance during an alarm.)
Output format: Voltage-differential line driver output (compliant with EIA-422)

Description	0-611
Description	Cable color
+5 V	Purple
0 V	Black
Α	Blue
Ā	Yellow
В	Orange
B	Gray
_	_
_	_
FG	Shield
	0 V A A B B

^{*} 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 does not become High impedance during an alarm., Output format: Voltage-differential line driver output (compliant with EIA-422)

Unit: mm

,				
Description	Cable color			
+5 V	Red			
0 V	White			
0 V	Brown			
0 V	Black			
Α	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 <i>μ</i> m	1 <i>µ</i> m	5 μm	10 μm	1 <i>µ</i> m	5 μm	10 <i>µ</i> m
Power voltage	5 VDC±5 %							
Power consumption	0.9 W			1.2	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							