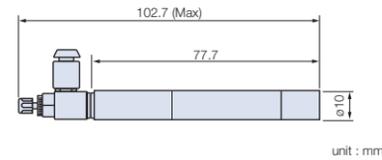


# Accessories (for DT series)

## DZ176 Air lifter (for DT)

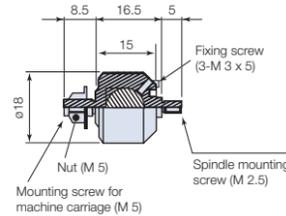


- Measuring range: 0 to 12 mm
- Can be used for DT12/512P/N
- Air pressure: 250 to 700 kPa (25,48 to 69,58 N/cm<sup>2</sup>)
- Operating temperature: 0 to 50°C
- Storage temperature: -10 to 60°C
- Mass: 41g (incl. speed controller)
- Service life: 5 million times
- Supplied accessories: Mounting jig, speed controller (SMC: AS1211F-M5-04)



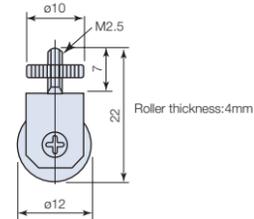
unit : mm

## DZ-191 Coupling



Unit : mm

## DZ-100 Roller feeler (for DT Series, DG-B Series: except for DG155BP/205BP)



Unit : mm

## Other accessories

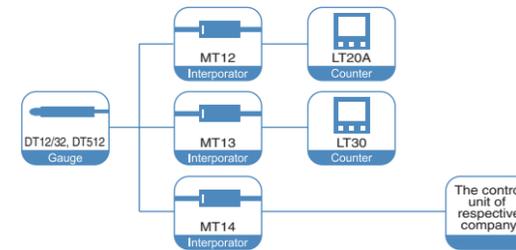
- CE-08 Extension cable : CE08-01 (1m) , 03 (3m) , 05 (5m) , 10 (10m) , 15 (15m)
- CK-T Extension cable (Ahead-proof) : CK-T12 (1m) , T13 (3m) , T14 (5m) , T15 (10m)
- CK-T101/T105 (Winding-proof) : T101 (3m) , T105 (5m) S

# MT

# MT12/13/14

Detectors for DT12 / 32 Series

- MT12/13: For connection to counter
- MT14: Unterminated cable
- A/B-quadrature output by line driver [EIA-422 compliance]
- Power supply + 5 V DC

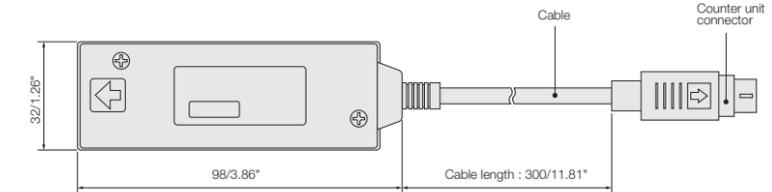
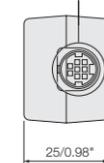


Interpolator

## Dimensions

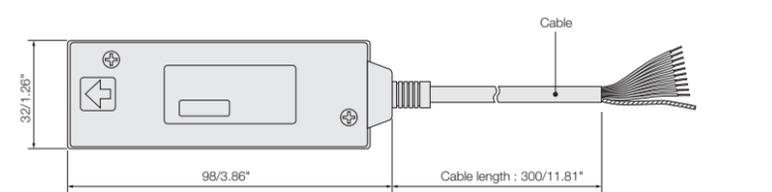
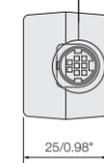
### MT12 / MT13

Measuring unit connector



### MT14

Measuring unit connector



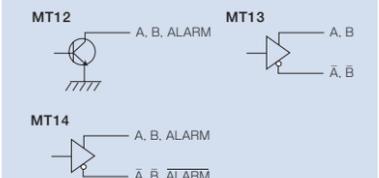
Unit : mm/inch

## Phase difference for A/B phase output

Changes as follows according to the traveling velocity of the measuring unit.

Model	MT□□-01	MT□□-05	MT□□-10	Output phase difference (μs)
Velocity (m/min)	0 to 2.5	0 to 12.5	0 to 25	20
	to 6.25	to 31.25	to 62.5	8
	to 12	to 60	to (100)*	5
	to 24	to (100)*	-	2.5
	to 60	-	-	1
	to (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 μs.



Pin no.	Description	Cable color
1	+5 V	Red
2	-	-
3	0 V	Black
4	A	Yellow
5	B	Blue
6	-	-
7	-	-
8	ALARM	Gray
9	0 V	Purple
10	0 V	Orange
Case	FG	Shield

Pin no.	Description	Cable color
1	+4.5 V	Purple
2	0 V	Black
3	A	Blue
4	Ā	Yellow
5	B	Orange
6	B̄	Gray
7	-	-
8	-	-
Case	FG	Shield

Description	Cable color
+5 V	Red
0 V	White
0 V	Brown
0 V	Black
A	Yellow
Ā	Blue
B	Gray
B̄	Orange
ALARM	Purple
ALARM	Green
FG	Shield

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

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

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

## Specifications

Model	MT12-05/10	MT13-01/05/10	MT14-01/05/10
Compatible measuring units	DT12/32, DT512		
Maximum response speed	100 m/min		
Resolution	5μm(-05), 10μm(-10)	1μm(-01), 5μm(-05), 10μm(-10)	
Power voltage	DC5 V ±4 %		
Power consumption	0.9 W	1.2 W (when output load of 120Ω is connected)	
Output format	NPN open collector	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)		
Dimensions	See the Dimensional Diagram.		
Mass	About 90 g		

\*Please refer to p54 for the details of the screw.