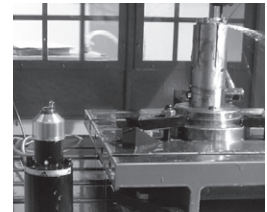




■ Tool setters for small CNC machining centers are used for precise blade positioning, and detection of the wear and breakage.



■ Standard specifications

unit:mm

Product name	TM26	
Contact diameter	φ12	φ20
Removable contact	Stationary type	
Surface finishing	Grinding 4s	
Contact material	Tungsten carbide	
Contact structure	NC (Normally closed)	
Output mode	NO (Normally open)	
Pretravel	Approx. 0	
Stroke	5	
Repeatability	0.003 (Recommended operating speed of 50 - 200mm/min)	
Contact life time	3 million	
Protective structure	IP67	
Contact force	2.5N (Installation position : Vertical)	
Contact rating	DC5V - DC24V 10mA (Max20mA) resistance load	
Cable	Oil resistant φ4.8 / 6 cores Tensile strength 30N, Minimum bending R7	
LED lamp	Default : LED OFF / Operating : LED ON	

■ Precautions

- Although a protective cover is provided with the sensor, an extra cover is needed separately to prevent high pressure coolant or heavy cuttings from entering inside and accumulating in the body.
- Rubber materials used in products are applicable to water-soluble coolants and alkaline liquids. (Refer to P5-4)

- Precautions statement for Tool Setters ..... P2-3
- How to replace Air Blow Pipe ..... P2-4
- Precautions for sensor connecting ..... P5-1
- Cable options ..... P5-2
- Technical guide ..... P5-3


Over travel signal (built-in microswitch)

Output mode	NC (Normally closed) "About 2.5mm from skip signal"
Contact rating	DC24V 100mA resistance load

# φ12 Contact Type

## Tool Setter for Small CNC Machining Centers Cylindrical Type

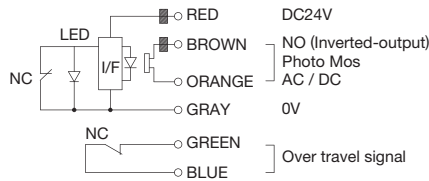
### Outer dimensions



### TM26B-112

**● Circuit diagram**

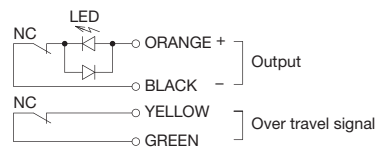
**Built-in I/F unit (Standard)**



RED DC24V  
 BROWN NO (Inverted-output)  
 ORANGE Photo Mos  
 GRAY AC / DC  
 GREEN 0V  
 BLUE Over travel signal

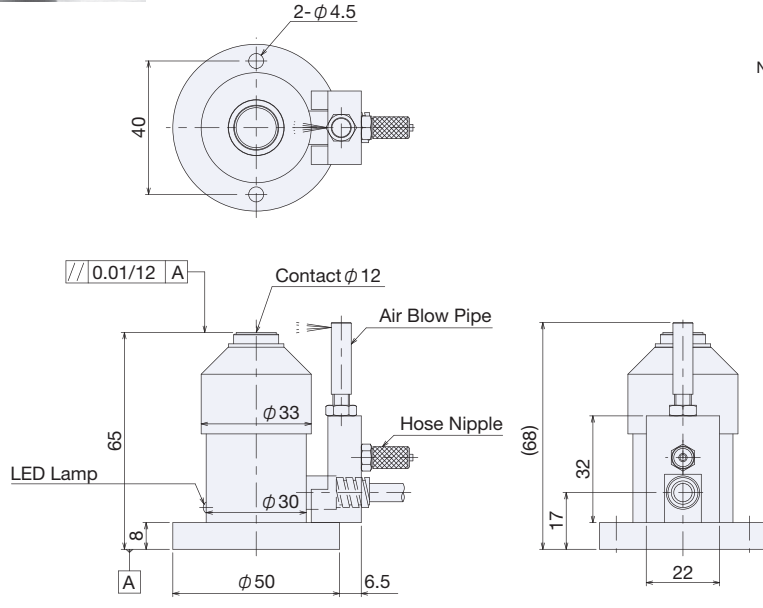
Power supply voltage : DC24V  
 Power consumption : 10mA  
 Output capacity : DC60V 100mA (Resistance load)  
 AC60V 100mA (Peak value)  
 500mW (Max)

**I/F Unit Not Required (Optional)**



ORANGE + Output  
 BLACK -  
 YELLOW Over travel signal  
 GREEN

Cable : φ5 / 4cores



Top view: 2-φ4.5, 40

Side view: LED Lamp, Contact φ12, Air Blow Pipe, Hose Nipple, φ33, φ30, φ50, 65, 8, 6.5, A, 0.01/12

Front view: (68), 32, 17, 22

### Specification sheet

Fax +81 42 528 1442  
E-mail : touchsensor@metrol.co.jp

▼Please send us your inquiry by fax/e-mail after copying this page, and filling in necessary information. Sample :

Optional specifications (Bold:Standard)

Date:(mm,dd,yy) \_\_\_\_\_

Output mode	<input type="checkbox"/> <b>NO : Normally open</b>	<input type="checkbox"/> NC : Normally closed
I/F unit	<input type="checkbox"/> <b>Built-in</b>	<input type="checkbox"/> Not required (Contact structure = Output mode)


Cable options (1m/unit)

Length / Protective cable	_____ m / <input type="checkbox"/> Unnecessary	<input type="checkbox"/> Protective tube _____ m (Upper limit :15m)
Connector (Refer to P5-2)	<input type="checkbox"/> Not required	<input type="checkbox"/> Connector
Machine side cable option	Length _____ m	
from connector (if desired)	Protective cable <input type="checkbox"/> Not required	<input type="checkbox"/> Protective tube _____ m (Upper limit :15m)

Company :
Dept. / Title :
Customer name :
Address :
Tel : _____ Fax : _____
E-mail :
Other (if any) :


### Ordering and Inquiries

**1.Customer**




Fill out the specification sheet and send to Metrol.

**2.Metrol**




Send the drawing(s) of specific model based on spec sheet received.

**3.Customer**



Select/confirm the specific model by the customer.

**4.Customer /Metrol**




Metrol sends the quote, and the customer places the order for the same.

E-mail to : [touchsensor@metrol.co.jp](mailto:touchsensor@metrol.co.jp)  
 Download PDF sheet : <http://toolsensor.com/builder.html>

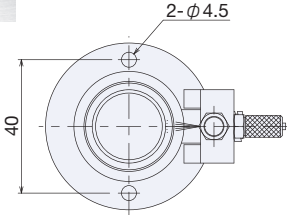
# φ20 Contact Type

## Tool Setter for Small CNC Machining Centers Cylindrical Type

### Outer dimensions

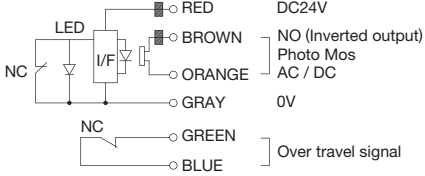


### TM26D-120



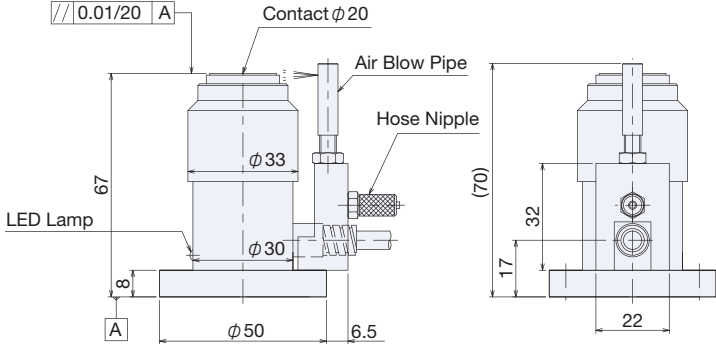
#### ●Circuit diagram

##### Built-in I/F unit (Standard)




DC24V  
NO (Inverted output)  
Photo Mos  
AC / DC  
0V  
Over travel signal

Power supply voltage : DC24V  
Power consumption : 10mA  
Output capacity : DC60V 100mA (Resistance load)  
AC60V 100mA (Peak value)  
500mW (Max)



#### I/F Unit Not Required (Optional)



Output  
Over travel signal

Cable : φ5 / 4cores

### Specification sheet

Fax +81 42 528 1442  
E-mail : touchsensor@metrol.co.jp

▼Please send us your inquiry by fax/e-mail after copying this page, and filling in necessary information. Sample :

#### Optional specifications (Bold:Standard)

Date:(mm,dd,yy) \_\_\_\_\_

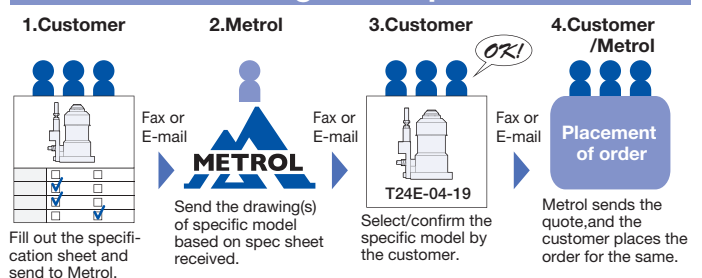
Output mode	<input type="checkbox"/> <b>NO : Normally open</b>	<input type="checkbox"/> NC : Normally closed
I/F unit	<input type="checkbox"/> <b>Built-in</b>	<input type="checkbox"/> Not required (Contact structure = Output mode)

#### Cable options (1m/unit)

Length / Protective cable	_____ m / <input type="checkbox"/> Not required	<input type="checkbox"/> Protective tube _____ m (Upper limit :15m)
Connector (Refer to P5-2)	<input type="checkbox"/> Not required	<input type="checkbox"/> Connector
Machine side cable option from connector (if desired)	Length _____ m	
	Protective cable <input type="checkbox"/> Not required	<input type="checkbox"/> Protective tube _____ m (Upper limit :15m)

Company :
Dept. / Title :
Customer name :
Address :
Tel : _____ Fax : _____
E-mail :
Other (if any) :

### Ordering and Inquiries



E-mail to : touchsensor@metrol.co.jp

Download PDF sheet : <http://toolsensor.com/builder.html>