

# Dimension Detecting Wireless Switch

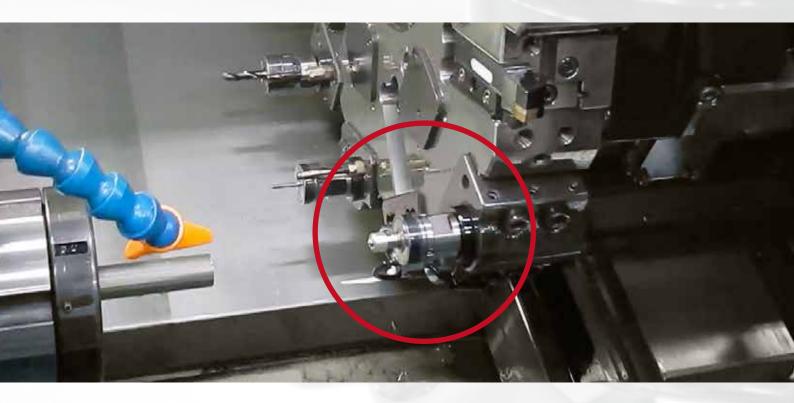
for CNC Turret Lathes

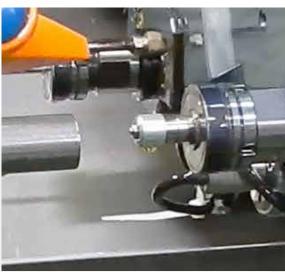
NEWI

## Prevents workpiece Dimensional Errors on Turret Lathes.



### Dimension Detecting RC-Wireless Switch for CNC Turret Lathes





## 1µm Repeatability! Detects the Length of Bar Material.

Detects the length of bar material before machining and outputs a signal to NC machines.

Full inspection after machining can be eliminated by preventing defective products.



# **2.4**GHz! New Radio Transmission System, Resistant to Noise.

Wireless switch can be retrofitted to turret lathes, where manipulating wiring is difficult.

Selects the optimal channel automatically by searching the radio wave frequency band at all times.

Reliable communication can be realized.

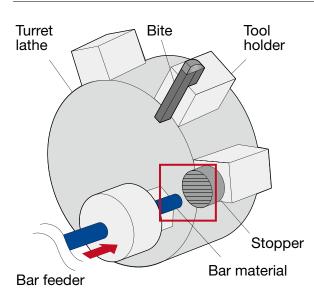
### Detects dimensional errors in the machining process, reducing the inspection process.

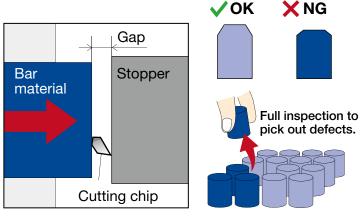
#### Conventional method



Cutting chips caught between the bar and the stopper cause defective products.

Full inspection for defects takes lots of man-hours.





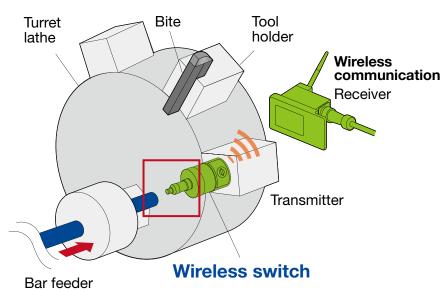
The manual inspection may overlook defects, resulting in complaints from the customer.

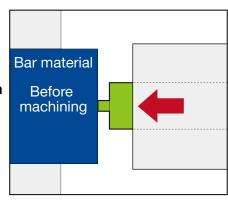
Dimensional errors should be prevented within the turret lathe.

#### New Approach



Prevents dimensional errors by detecting the bar length before machining and outputting a NG signal to NC machine. Drastically reducing man-hours by eliminating the inspection process.





Because there is no need for wiring, it is possible to retrofit the switch to a turret tool holder.

The length of bar material can be detected with 1µm repeatability before machining.

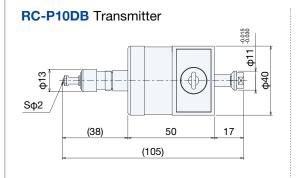
#### Specification

#### **Dimension Detecting Wireless Switch for CNC Turret Lathe**

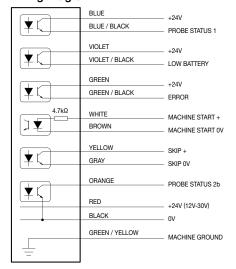
Product name	RC-P10DB
Repeatability	1µm
Signal transmission format	FSK (DSSS)
No. of channels	37
Wireless frequency	2400MHz – 2480MHz
Power ON /OFF signal	M code
Signal transmission range	Max.15m
Receiver / Interface	Receiver antenna-integrated interface
Operating environment	For indoor use only
Protective structure	IEC IP67
Storage temperature	-10°C – 70°C
Operating temperature	5°C – 50°C

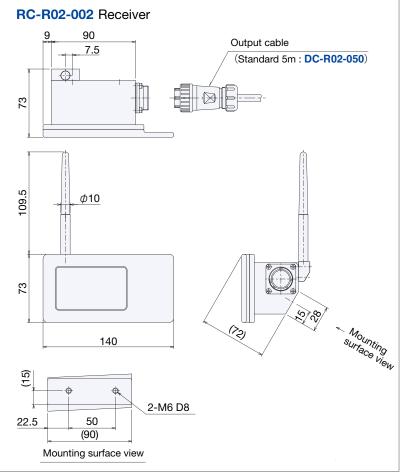
Battery	½AA litium-thionyl chloride battery
	(3.6V) x 1
Time untill battery	After start of low battery indication:
replacement	approx. 1hr
Low battery indication	Flashing of battery alarm LED (orange)
Dead battery indication	Illumination of battery alarm LED (orange)
Battery life	5% use (72min/day) : 62days
	Continuous use : 180hours

#### Outer dimensions (reference)



#### Wiring Diagram





#### **Help Desk**

We accept inquiry regarding sensor selection, exclusive specification, and technical matter through e-mail, Fax, and Tel.

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The specifications and discriptions are subjected to change without notice due to improvements in products. RCP10DB-E-K003