

## CONTACT/NON-CONTACT TACHOMETER CODE 9225-405



- 2 measuring methods, contact and non-contact
- Can measure rotary speed and line speed
- Automatically save the maximum value, minimum value and the last value, 500 data can be stored during continuous measurement
- Automatic power off



cone head  
(included)



cone cavity  
head (included)



reflection sticker  
(included)



wheel with 0.1m  
perimeter (included)



small cone head  
(included)



clamping sleeve  
(included)



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### SPECIFICATION

| Measuring method      |              | Non-contact   | Contact   |
|-----------------------|--------------|---|---|
| Measuring range       | rotary speed | 2.5~99999RPM  | 0.5~19999RPM  |
|                       | line speed   | —   | 0.05~500m/min   |
| Resolution            | rotary speed | 0.1RPM (range 2.5~999.9RPM)<br>1RPM (range 1000~99999RPM)   | 0.1RPM (range 0.5~999.9RPM)<br>1RPM (range 1000~19999RPM)   |
|                       | line speed   | —   | 0.01m/min (range 0.05~99.99m/min)<br>0.1m/min (range 100~500m/min)  |
| Accuracy              | rotary speed | $\pm(0.05\%n+1d)$ RPM<br>n is rotary speed, d is resolution | $\pm(0.4\%n+1d)$ RPM (n<300RPM)<br>$\pm(0.05\%n+1d)$ RPM (n≥300RPM)<br>n is rotary speed, d is resolution |
|                       | line speed   | —   | $\pm(1\%+1d)$ m/min d is resolution   |
| Laser power           |              | class 3R, 3mW~4mW   | —   |
| Sampling time         |              | 0.6s (above 100RPM)   |   |
| Measuring distance    |              | 50~500mm  | —   |
| Operation temperature |              | 0~40°C  |   |
| Power supply          |              | 3×AA batteries  |   |
| Dimension             |              | 206×71×36mm   |   |
| Weight                |              | 170g  |   |

### STANDARD DELIVERY

|                              |       |
|------------------------------|-------|
| Main unit                    | 1 pc  |
| Reflection sticker (9220-RS) | 3 pcs |
| Wheel with 0.1m perimeter    | 1 pc  |
| Clamping sleeve              | 1 pc  |
| Cone head                    | 1 pc  |
| Small cone head              | 1 pc  |
| Cone cavity head             | 1 pc  |
| Battery (AA)                 | 3 pcs |

## NON-CONTACT TACHOMETER CODE 9223-120



- Accurately measure the rotary speed without contact
- Automatically save the maximum value, minimum value and the last value, 500 data can be stored during continuous measurement

### SPECIFICATION

|                       |   |
|-----------------------|---|
| Measuring range       | 2.5~99999RPM  |
| Resolution            | 0.1RPM (range 2.5~999.9RPM)<br>1RPM (range 1000~99999RPM)   |
| Accuracy              | $\pm(0.05\%n+1d)$ RPM<br>n is rotary speed, d is resolution |
| Laser power           | class 3R, 3mW~4mW   |
| Sampling time         | 0.6 second (above 100RPM)                                   |
| Measuring distance    | 50~500mm  |
| Operation temperature | 0~40°C  |
| Power supply          | 3×AA batteries  |
| Dimension             | 180×71×29.9mm   |
| Weight                | 145g  |



reflection sticker  
(included)

### STANDARD DELIVERY

|                              |       |
|------------------------------|-------|
| Main unit                    | 1 pc  |
| Reflection sticker (9220-RS) | 3 pcs |
| Battery (AA)                 | 3 pcs |



- Can measure rotary speed, line speed and line length
- Automatically save the maximum value, minimum value and the last value, 96 data can be stored during continuous measurement
- With backlight display

### SPECIFICATION

|                       |                    |   |
|-----------------------|--------------------|---|
| Measuring range       | rotary speed       | 0.5~19999RPM  |
|                       | line speed         | 0.05~500m/min   |
|                       | line length        | 0.05~99999m   |
| Resolution            | rotary speed       | 0.1RPM (range 0.5~999.9RPM)<br>1RPM (range 1000~19999RPM)   |
|                       | line speed         | 0.01m/min (range 0.05~99.99m/min)<br>0.1m/min (range 100~500m/min)  |
|                       | line length        | 0.02m   |
| Accuracy              | rotary speed       | $\pm(0.4\%n+1d)$ RPM ( $n<300$ RPM)<br>$\pm(0.05\%n+1d)$ RPM ( $n\geq 300$ RPM)<br>n is rotary speed, d is resolution |
|                       | line speed         | $\pm(1\%+1d)$ m/min d is resolution   |
|                       | line length        | $\pm(1\%+1d)$ m d is resolution   |
| Sampling time         | 0.8s (above 60RPM) |   |
| Operation temperature | 0~40°C             |   |
| Power supply          | 3×AA batteries     |   |
| Dimension             | 171×71×35mm        |   |
| Weight                | 162g               |   |

## CONTACT TACHOMETER CODE 9224-213



cone cavity head (included)



clamping sleeve (included)



cone head (included)



small cone head (included)

### STANDARD DELIVERY

|                           |       |
|---------------------------|-------|
| Main unit                 | 1 pc  |
| Wheel with 0.1m perimeter | 1 pc  |
| Clamping sleeve           | 1 pc  |
| Cone head                 | 1 pc  |
| Small cone head           | 1 pc  |
| Cone cavity head          | 1 pc  |
| Battery (AA)              | 3 pcs |



wheel with 0.1m perimeter (included)



- Make cyclical motion (rotation, vibration, etc.) objects to appear slow-moving or stationary
- On-line inspection or observation for moving objects
- Measure the rotation or vibration speed and frequency
- Can be triggered from outside by moving objects, make LED flash frequency same as the rotation or vibration

### SPECIFICATION

|                           |  |  |
|---------------------------|--|--|
| Flash frequency range     | 60~120000FPM (flash per minute), 1~2000Hz      |  |
| Resolution                | FPM  | 0.1FPM (<100000FPM), 1FPM ( $\geq 100000$ FPM) |
|                           | HZ   | 0.01Hz (<200Hz), 0.1Hz ( $\geq 200$ Hz)        |
| Setting accuracy          | $\pm 0.01\%$                                   |  |
| Phase shift increment     | 3°   |  |
| Flash pulse duration time | 0.1~2.5°                                       |  |
| LED light                 | 3 pcs CREE 10W lamp                            |  |
| LED life                  | 3~5 years                                      |  |
| Trigger mode              | internal and external                          |  |
| Power supply              | built-in rechargeable battery or AC/DC adapter |  |
| Dimension                 | 208×70×60mm                                    |  |
| Weight                    | 380g   |  |

### STANDARD DELIVERY

|                   |      |
|-------------------|------|
| Main unit         | 1 pc |
| AC/DC adapter     | 1 pc |
| Proximity trigger | 1 pc |

## DIGITAL LED TACHOMETER/STROBOSCOPE CODE ISQ-TS120K



proximity trigger (included)



make LED flash frequency same as the rotation or vibration (power supply from AC/DC adapter when external trigger is used)