

## Foreword

This instrument is a Linear Gage 0.1µm Resolution. To obtain the highest performance and the longest service life from your Linear Gage, carefully read this manual thoroughly prior to setup and operation. After reading this manual keep it near the Linear Gage for quick reference. The specifications of this gage and the descriptions in this manual are subject to change without prior notification.

## Safety Precautions

To ensure operator safety, use the instrument in conformance with the directions and specifications given in this User's Manual.



- If a contact point with a sharp tip is used, exercise sufficient care in handling during replacement or use of it so as not to get hurt.
- If a contact point is released freely after it has been pressed in, the contact point may burst forth at a very high speed depending on the amount of spindle travel. Sufficiently exercise care so that your fingers or hand may not be pinched.

## Precautions for Use

Carefully avoid the following attempts and conditions to protect the instrument from failure and malfunction.

### IMPORTANT

- Do not apply sudden shocks including a drop or excessive force to the linear gage.
- Do not use and store the gage at sites where it is exposed to direct sunlight or at extremely hot or cold sites.
- To use the gage highly accurately, avoid sites where the temperature will change abruptly.
- Absolutely do not apply an electric engraver to the gage. The high voltage may damage electronic parts. Also, do not use the gage at sites where it is subject to large electric noises.
- Do not exert load on the spindle in the perpendicular direction and do not twist the spindle.
- Do not clamp the stem too tightly, since the spindle will not move smoothly.
- Do not apply excessive tension to the cable or do not bend it forcibly.
- To perform stable measurement, allow at least 10 minutes after turning on the power.
- Do not set up the origin point at either end of the stroke.
- If the gage is used in combination with other instruments, the maximum performance could not be obtained depending on environmental and operating conditions. Take those conditions into consideration prior to use.
- The functions and performance will not be guaranteed, if the gage is used in other conditions than those specified.
- Take sufficient damage-preventive processing (safety measures), should this gage have been at fault.
- A contact point could hurt a workpiece depending on the workpiece material, measuring force, impact when the contact point comes in contact with the workpiece, etc. Check that there is no problem of hurt on a workpiece during measurement or accuracy variation depending on the measuring force, etc., in advance of use.

## Electromagnetic Compatibility (EMC)

This product complies with the EMC Directive. Note that in environments where electromagnetic interference exceeds EMC requirements defined in this directive, appropriate countermeasures are required to assure the product performance.

## Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)



This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. To reduce the environmental impact of WEEE (Waste Electrical and Electronic Equipment) and minimize the volume of WEEE entering landfills, please reuse and recycle.

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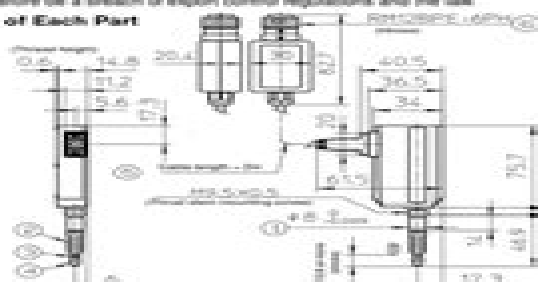
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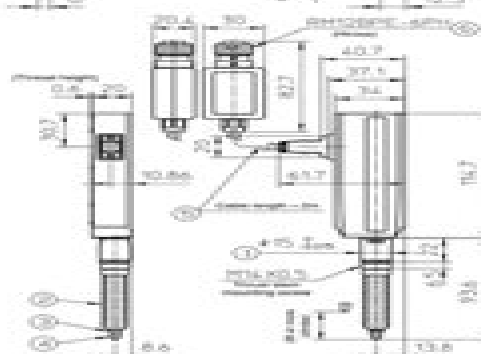
## 1. Name and Dimension of Each Part

- (1) Stem
- (2) Rubber boot
- (3) Spindle
- (4) Contact point
- (5) Output cable
- (6) Output connector

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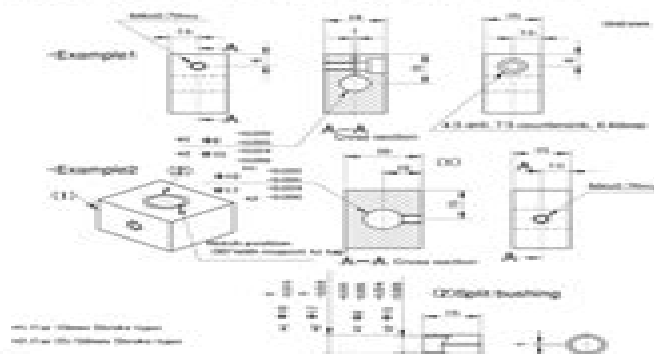


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## 2. Mounting the Gage

To mount the gage on another instrument or a fixture, clamp the #8 stem or #10 stem. It is recommended to use a slotted holder or a split bushing for the mount structure.



### IMPORTANT

- Absolutely avoid pressing the stem directly with set screws. (The built-in bearing may be damaged.)
- Notice that excessively tightening the stem can cause trouble in the spindle operation.
- Never fix a linear gage at other than the stem.
- Mount the gage so that the spindle is directed perpendicular to the measured surface. If the gage is mounted at an angle to the measured surface, an error may be generated in measurement results.
- Exercise care so as not to exert a force on the gage through the cable.



## 3. Precautions in Protecting the Gage from Dust and Water

### IMPORTANT

- The output connector plug and preamplifier (counter side) is not protective structured. Install the gage at a place where it is not splashed directly with water or oil.
- If an extension cable is used, completely cover the preamplifier and connector area with a seal so as not to be exposed to environments.
- If the cable covering is broken, liquid will generate into the gage inside due to capillary phenomenon. This will cause damage to the gage, immediately repair the cable.
- Be greatly careful not to damage the rubber boot due to chips, etc. If the rubber boot is damaged, dust-proof function will be deteriorated. Immediately replace or repair the rubber boot.
- The materials including rubber which are used for the rubber boot and other sealing parts are not universal against diversified coolants and chemicals. If those parts deteriorate mutually, consult the nearest Mitutoyo Service Center.
- If linear gages are used in adverse environments where they are subject to frequent splashes of water and oil, it is recommended to take preventive measures such as replacing them before being damaged.
- Each part of the gage is sealed up, and therefore must not be disassembled. If any part is disassembled, the rated performance will not be obtained. Do not absolutely disassemble the gage.

## 4. Connecting the Gage to a Counter

Connect the output connector of the gage to the input connector on a linear gage counter. For detailed information, refer to the user's manual of the linear gage counter.

### IMPORTANT

- If the gage cable is close to the power line for other instruments, the gage may malfunction. Connect the gage cable as apart from the power line as possible.
- If the gage is connected with other counter than Mitutoyo made, allow at least 0.2 second after the gage is turned on, then read the counter.

## 5. Gage Output Signals

- Output connector: RM12BPC-60H ( Hirose )

### Pin assignment

Pin No.	Signal name	Pin No.	Signal name	Pin No.	Signal name
1	5V <sub>+</sub>	3	GND	5	GND
2	SA	4	SB	6	SB

### Power supply to the gage head

Power voltage: 5V<sub>+</sub> (4.8V to 5.2V)  
Ripple voltage: 200mVp-p or less  
Current consumption: 120mA max.

- Input/output signal level  
0.4, SA, SB, 0.2 ( TTL line driver AM25L531 or equivalent )

### Output signal chart

This series of gages are provided with the following three patterns for their output signals. Therefore, always design the reception circuitry so that it includes an error detecting process making use of these patterns:

- (A) Real-time pulse output (Phase-A wave advances when the spindle is retracted.)



- (1) Output condition: Spindle moving speed = Gage response speed \*4
- (2) Minimum edge-to-edge interval of output pulses: Tr = 0.2 µs
- (3) Output delay time <sup>1)</sup> Max. 2.5 µs

# Mitutoyo B2user Manual

**S Ben Porath**



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