

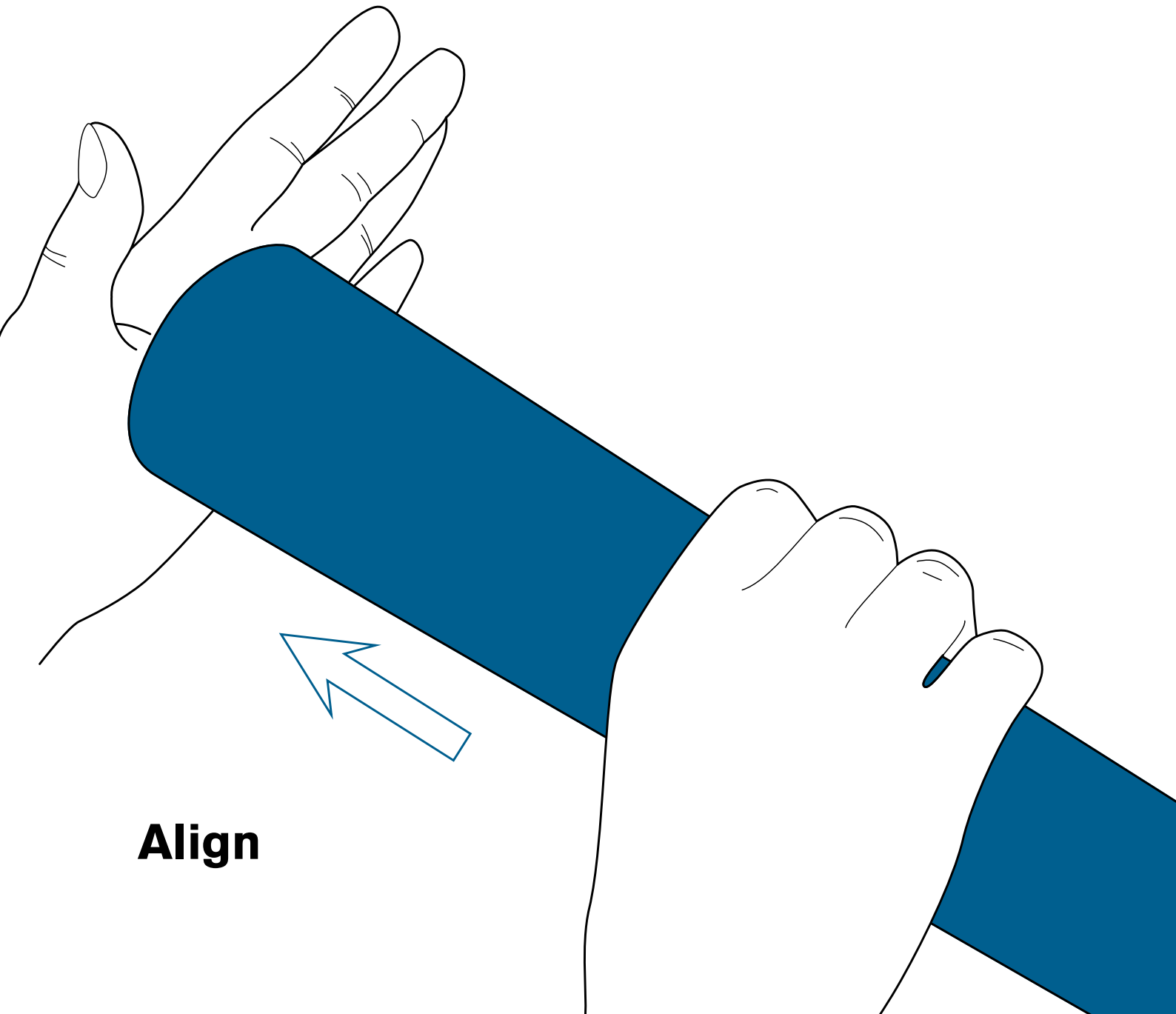
# LPC

WEB GUIDE SYSTEM



## 02

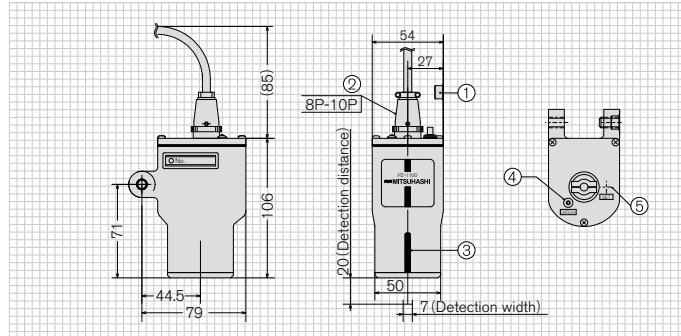
Sensor



**Align**

Type	Detection Method	Detection Target	Light Source	Photodetector	Application · Features
<b>PS-1100</b>	Reflection		Light Emitting Diode	CCD	Line · Edge · Pattern
<b>PS-261</b>	Reflection	Line · Edge	Light Emitting Diode	Photodiode	Line · Edge · Pattern
<b>PS-270</b>	Reflection	Line · Edge	Light Emitting Diode	Photodiode	Line · Edge · Pattern
<b>PS-800</b>	Transmission	Edge · Line	Lamp	Photodiode	Transparent and opaque edge, as well as line
<b>PS-711</b>	Transmission	Edge · Centering	Light Emitting Diode	Photodiode	Transparent and opaque edge
<b>PS-300</b>	Transmission	Centering	Light Emitting Diode	Photodiode	The sensor is always fixed even with changes in web width.
<b>PS-350</b>	Transmission	Centering	Light Emitting Diode	Photodiode	The sensor is always fixed even with changes in web width.
<b>PS-400</b>	Transmission(Ultrasonic)	Edge	—	—	The sensor is not affected by edge of transparent and any patterns.
<b>PS-45</b>	Transmission(Ultrasonic)	Edge	—	—	The sensor is not affected by edge of transparent and any patterns.
<b>MF-6C</b>	Contact	EdgeON/OFF/ON	—	—	Clothes edge

## PS-1100 type reflective type Sensor (CCD)

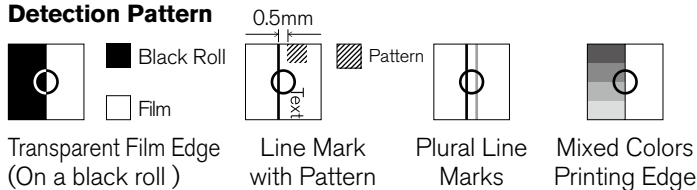


- ① Angle adjustment key
- ② Sensor cable (option)
- ③ Center mark
- ④ CATCH lamp
- ⑤ SET switch

### Feature

1. Since the SET switch is built into the main part of a sensor, initial setting can be carried out easily, looking at a film.
2. A detection position is quite obvious. Film alignment is simple.
3. A line mark can be detected without being influenced by a character and the pattern.

### Detection Pattern

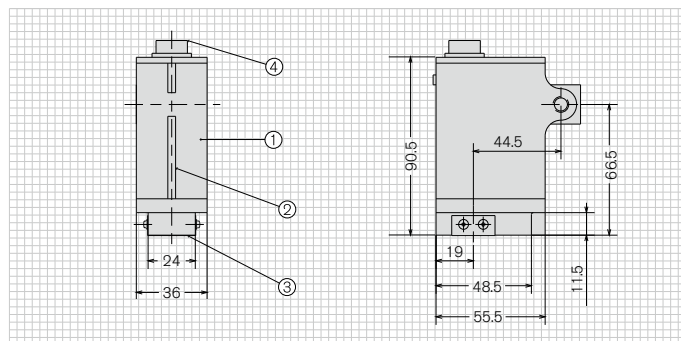


○ Sensor Position

### Specifications

Detecting Distance	20mm
Light Source	White LED
Detection Width	7mm
Photodetector	CCD Linear Image Sensor (2048 bits, 14 μ m pitch)
Case	Aluminum Die Cast
Ambient Temperature	0 ~ 40°C
Humidity	Below 80%RH (No condensation)
Mass	Approx.0.5kg (Approx.1.2kg with PZ-121 Holder)

## PS-261 Reflection Sensor



- ① PS-261 Sensor
- ② Center mark
- ③ Sensor Filter
- ④ Sensor Cord Connector

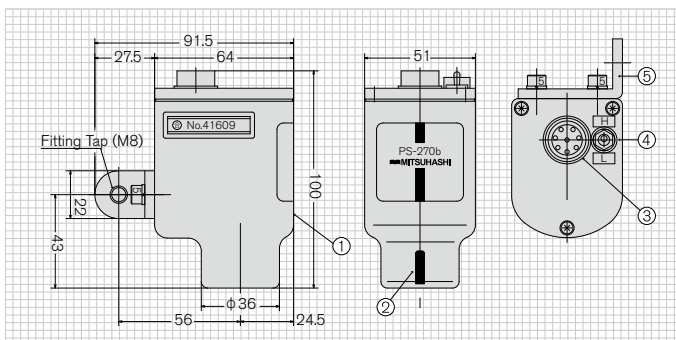
### Feature

1. The non-contact sensor of the photoelectric reflection method
2. The filter, supplied with the sensor, makes the sensor free from any disturbance.
3. This sensor will detect the line marks of any color accurately and correctly. (The line mark should be 0.5mm~3mm wide.)
4. The photodetector incorporate a pair of opt electric transducers of special construction, thus ensuring stable sensing operations.

### Specifications

Detecting System	Photo electric reflection, Deviation Proportional Type
Light Source	White LED
Photodetector	Silicon Photodiode
Line-mark width	0.5 ~ 3mm
Ambient Temperature	0°C ~ 50°C
Mass	Approx.700g

## PS-270 Reflection Sensor



- ① Case
- ② Center mark
- ③ Sensor Cord Connector
- ④ Sensitivity Selection Switch
- ⑤ Mounting Bracket

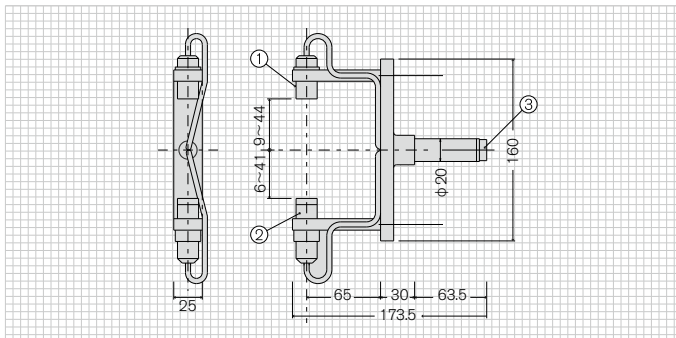
### Feature

1. The large-sized lens of 30 mm of detection distance and the diameter phi 7.5 of a spot is adopted. A detecting point is legible and position adjustment is easy.
2. It is equipped with a newly-designed circuit. It is not affected by the influence of the lighting of sunlight and the circumference, etc.
3. The web of gold and a silver background is also detectable. This become s strong in gold, the mark line of the Web of "the light" including the silver by a new optical system, too

### Specifications

Detecting System	Photo electric reflection, Deviation Proportional Type
Light Source	White LED
Photodetector	Silicon Photodiode
Detecting Distance	30mm
Detecting Range	5mm
Ambient Temperature	0 ~ 40°C Humidity Below 80%RH (No condensation)
Mass	380g

## PS-800 Transmission Sensor



- ① Photodetector device
- ② Light emitting device
- ③ Connector
- ④ Holder PZ-110 Type (option)

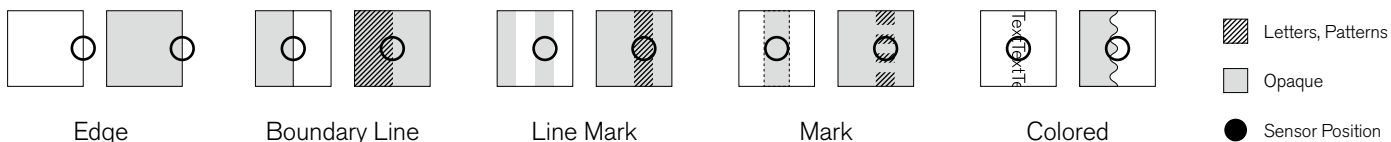
### Feature

1. This sensor can detect the boundary between a semitransparent and an opaque sheet material.
2. The sensor can be applied to detect any webs, both transparent and opaque.
3. The sensor can detect the edge of a web without touching it, so it can be applied to the sheet with unstable edge movement.
4. The sensor adopts a silicone photodiode that can get photoelectric current by a slight change in the amount of light.

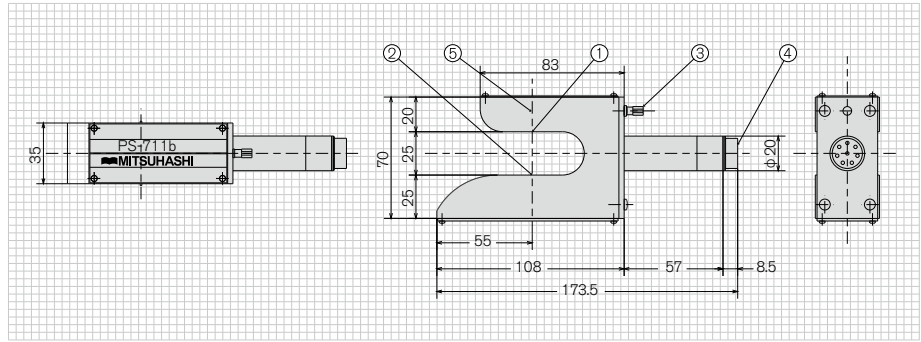
### Specifications

Detecting System	Photo electric reflection, Deviation Proportional Type
Light Source	5.5V0.4A Tungsten lamp
Photodetector	Silicon Photodiode
Position Setting	± 30mm
Ambient Temperature	0°C ~ 50°C
Mass	2.0kg

### Detection Pattern (PS-261, PS-270, PS-800)



# PS-711 Transmission Sensor



① Photodetector ② Light Emitting Device ③ Ground Terminal ④ Connector ⑤ Center mark

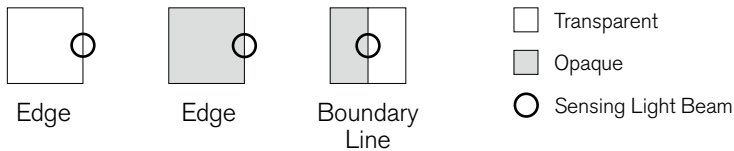
## Feature

1. This sensor can be applied to both transparent and opaque webs.
2. This sensor provides a broad sensing scope of  $\pm 5\text{mm}$ , thus can also be applied to the centering guide system.
3. Use of light-emitting diode as light source gives the sensor a virtually permanent service life.
4. The sensor employs the pulse-lighting system for control purposes, making it free from any disturbances.
5. Steel Shaft Type...PS-720

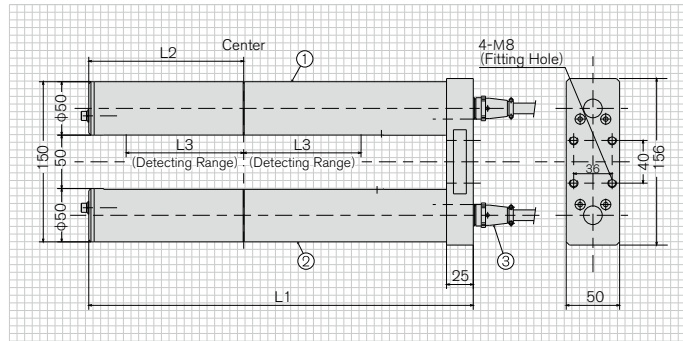
## Specifications

Detecting System	Photo electric reflection, Deviation Proportional Type
Light Source	Light Emitting Diode
Photodetector	Photodiode
Detection Width	$\pm 5\text{mm}$ (Proportional region)
Ambient Temperature	$0^{\circ}\text{C} \sim 50^{\circ}\text{C}$
Mass	Approx.200g

## Detection Pattern



# PS-300/350 Transmission Sensor



① Photodetector  
② Light Emitting Device  
③ Connector

**PS-300** L1=360 L2=145 L3=110  
**PS-350** L1=663 L2=318 L3=220

## Feature

1. This sensor can be applied to detect opaque webs.
2. This sensor provides a broad sensing scope thus can be used for centering guide system.
3. Use of light-emitting diode as light source gives the sensor a virtually permanent service life.
4. The sensor is fixed on both edges of the web to form a centering system.

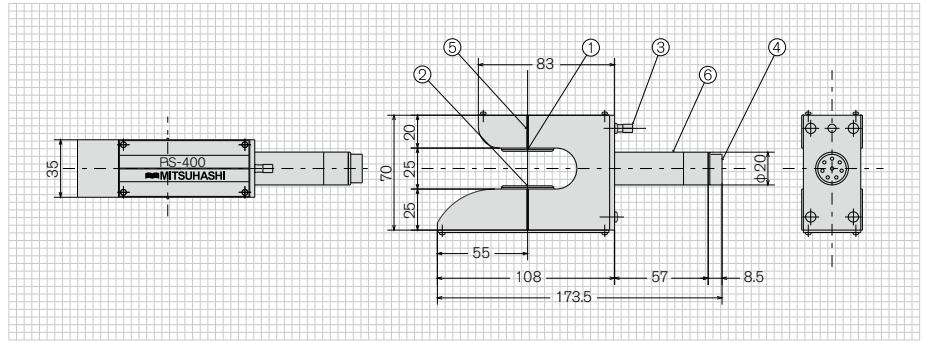
## Specifications

Detecting System	Photo electric reflection, Deviation Proportional Type
Light Source	Light Emitting Diode
Photodetector	Photodiode
Detection Width	<b>PS-300</b> : $\pm 100\text{mm}$ <b>PS-350</b> : $\pm 220\text{mm}$
Ambient Temperature	$0^{\circ}\text{C} \sim 50^{\circ}\text{C}$
Mass	<b>PS-300</b> : 2.2kg (One side) <b>PS-350</b> : 4kg (One side)

## Detection Pattern



## PS-400 Transmission Sensor (Ultrasonic)



① Receiver ② Transmitter ③ Ground Terminal ④ Connector ⑤ Center mark ⑥ Mounting Shaft

### Feature

Since change of the amount of penetrations of an ultrasonic wave is detected, it can detect without being affected by the influence of the transparency of a web.

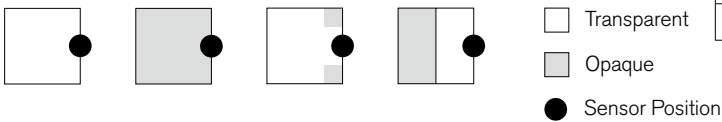
An edge of a web is detected certainly without also influencing printed matter and the pattern, etc. as well as a clear film.

· Steel Shaft Type··PS-420

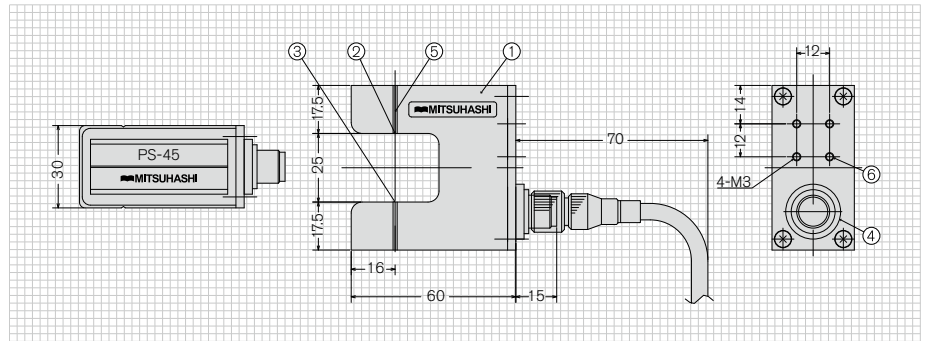
### Specifications

Detecting Position	Web Edge
Detecting Distance	25mm
Detecting Range	Proportional region $\pm 2$ mm
Detection Object	Transparent Web, Opaque Web
Center Frequency	200KHZ
Ambient Temperature	0°C~ 50°C (No condensation)
Mass	約 200g

### Detection Pattern



## PS-45 Transmission Sensor (Ultrasonic)



① Case ② Receiver ③ Transmitter ④ Sensor Code Connector ⑤ Center Mark ⑥ Mounting Tap

### Feature

**1.** Supersonic system Sensor PS-45 miniaturized the volume in about 1/2 compared with our items (PS-400). It's lack of space up to now and it can also be installed in the place which couldn't be installed

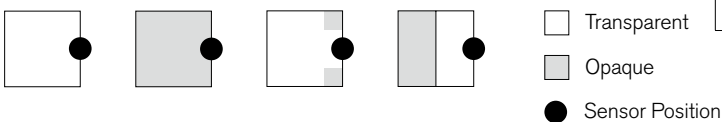
**2.** Since change of the amount of penetrations of an ultrasonic wave is detected, it can detect without being affected by the influence of the transparency of a web.

An edge of a web is detected certainly without also influencing printed matter and the pattern, etc. as well as a clear film.

### Specifications

Detecting Position	Web Edge
Detecting Distance	25mm
Detecting Range	Proportional region $\pm 2$ mm
Detection Object	Transparent Web, Opaque Web
Center Frequency	200KHZ
Ambient Temperature	0°C~ 40°C (No condensation)
Mass	Approx.130g

### Detection Pattern

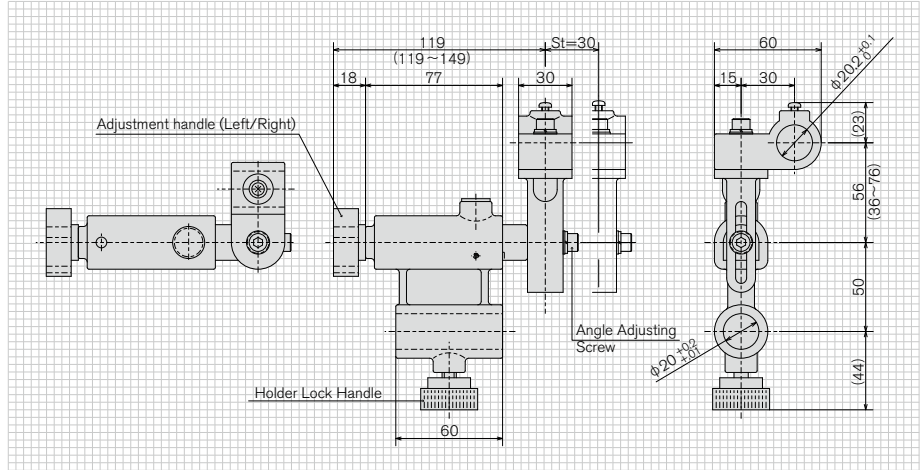


## PZ-110 Sensor Holder



### Specifications

Stroke	30mm
Feeding Amount	1mm/revolution
Mass	Approx.300g

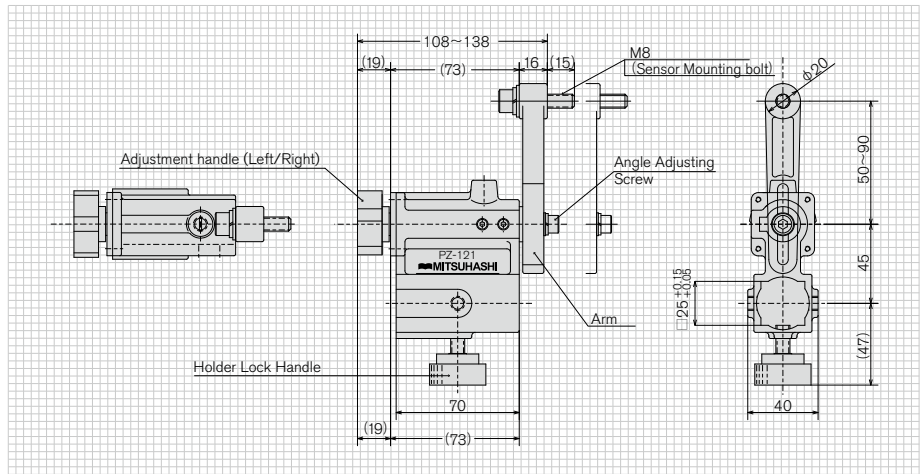


## PZ-121 Sensor Holder

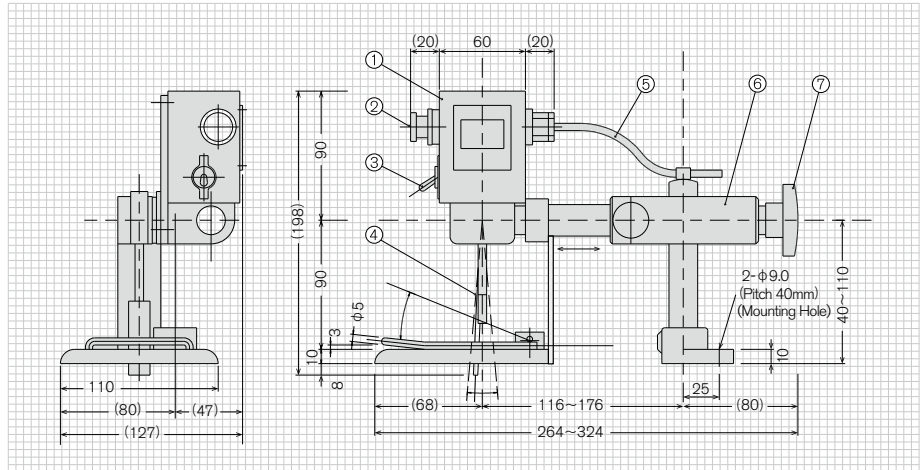


### Specifications

Stroke	30mm
Feeding Amount	1mm/revolution
Mass	Approx.500g



## MF-6C Feeler Sensor



- ① Body (MF-6C) ② Dead band adjustment handle ③ Power switch ON/OFF ④ Feeler lever  
⑤ Connection cord ⑥ Holder ⑦ Adjustment handle (Left/Right)

### Feature

1. Operate in high sensitivity by very light contact pressure.
2. Since it operates by light contact pressure, it is the best for the edge detection of a thin web.
3. It is small size, and it can install also in a narrow place and check is easy.

### Detection Pattern

The MF-6C type makes a feeler lever have contact with EDGE of a web, and it's detected.

### Specifications

Detecting System	ON-OFF-ON 3 Position
Detecting Device	Contact Switch
Dead Band Adjustment	1 ~ 5mm
Operating Pressure	More than 3g
Position Setting	110 ~ 170mm
Ambient Temperature	0°C ~ 50°C
Mass	Approx.800g (2.2kg with holder)





Lending “hands” to replace  
human hands.

株式会社 三橋製作所  
**MITSUHASHI CORPORATION**

**Head Office**

Postal Code 615-0082 1, Sekizan-cho, Yamanouchi,  
Ukyo-ku, Kyoto, JAPAN  
TEL 81-75-316-3300 (the sales department)  
FAX 81-75-313-7595

**Tokyo Branch (Export Office)**

Postal Code 111-0043 YoshikuniKomagata-bldg.9F,  
2-4-11, Komagata, Taitou-ku, Tokyo, JAPAN  
TEL 81-3-3847-9751  
FAX 81-3-3847-9753

**Kyushu Branch**

Postal Code 812-0016 Minamikindai-bldg.6F,  
4-2-10, Hakataekiminami, Hakata-ku, Fukuoka, JAPAN  
TEL 81-92-476-3800  
FAX 81-92-476-3801

**Shanghai Mitsuhashi trading company**

Room 1314, 36 Lanes, 1200 chang qing Road, Shanghai, CHINA  
TEL & FAX 86-21-5068-5366

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