

## Actuator Photointerrupter

### Model No: LBA-201

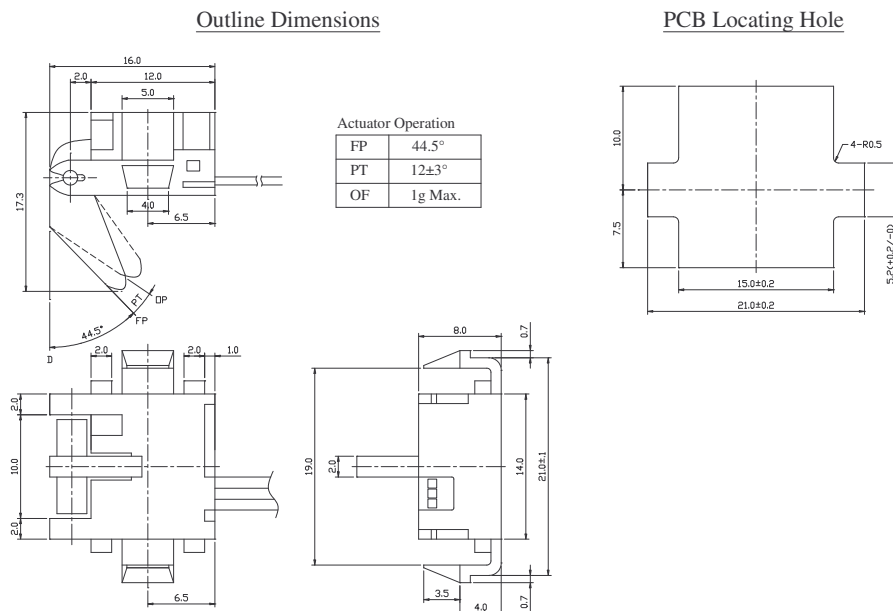
#### Features

- High sensing accuracy (Slit width: 0.5mm)
- Easy wiring due to built-in connector
- Snap-in mounting type in order to mount to an equipment easily
- Customized lever arm can be designed for specific application

#### Applications

- Copiers
- Laser beam printers
- Facsimiles

#### Outline Dimensions



Dimensions in mm

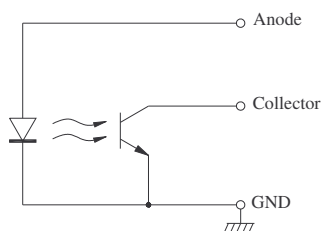
**Absolute Maximum Ratings** (Ambient Temperature: 25°C)

Item		Symbol	Rating	Units
Input	Forward current	IF	50	mA
	Reverse voltage	VR	5	V
	Power dissipation	PD	75	mW
Output	Collector-emitter voltage	Vceo	30	V
	Emitter-collector voltage	Veco	5	V
	Transistor collector current	Ic	50	mA
	Collector power dissipation	PC	75	mW
Storage Temperature		Tstg	-40 to +100	°C
Operating Temperature		Top	-25 to +85	°C

**Electrical Specifications** (Ambient Temperature: 25°C)

Item		Symbol	Min.	Typ.	Max.	Units	Conditions
Input	Forward voltage	VF	1.0	1.15	1.3	V	IF=10mA
	Peak forward voltage	VFM		3	4	V	IFM=0.5A
	Reverse current	IR			10	µA	VR=5V
Output	Collector dark current	Iceo		5	100	nA	Vce=24V, IF=0
	Collector-emitter breakdown voltage	BVceo	30			V	Ic=1mA
	Emitter-collector breakdown voltage	BVeco	5			V	Iec=50µA
Combination	Collector current	Ic	0.5	2.0		mA	Vce=5V, IF=20mA
	Collector-emitter saturation voltage	Vce(sat)		0.15	0.4	V	IF=20mA, Ic=1mA

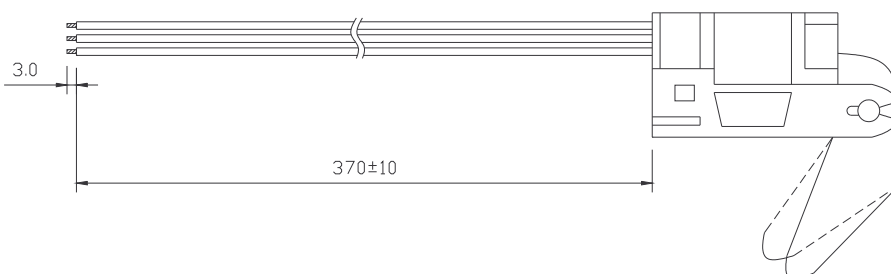
Schematic



Contact	Signal	Color
CN1 - 1	Collector	Blue
CN1 - 2	GND	Black
CN1 - 3	Anode	Red

### Mechanical Characteristic

• Operating Properties	(Outline Dimension) Refer Page 1
• Operating force	1.0 gf Max.
• Resistance to Vibration	10~55~10 Hz, 1.5mm
• Mechanical Life	More than 10 <sup>6</sup> cycles (Non-loading , ON-OFF active)
• Resistance to Shock	30g min.
• Operating Temperature	-20°C ~ +75°C
• Storage Temperature	-25°C ~ +80°C



### Parts list

No	Item	Pieces	Model no.	Remark
1	Sensor	1	LBA-201	LETTEX making
2	Housing	1	PC	帝人化成 (Japan)
3	Spring	1	SUS 304	
4	Wire	7	UL 1061 / AWG #28	Blue 、 Black 、 Red
5	Top Arm	1	POM	

# Reference Data

