

### PR-B25

BGS Photoelectric Sensor



- The perfect application of background-suppression function, even in the production line with the circulation of different color workpieces, there is no need to adjust the detection distance.
- High precision, small differential distance, can detect small segment difference.
- Anti interference, according to the unique external interference light avoidance algorithm can also resist the frequency conversion fluorescent lamp.

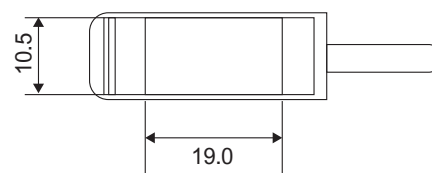
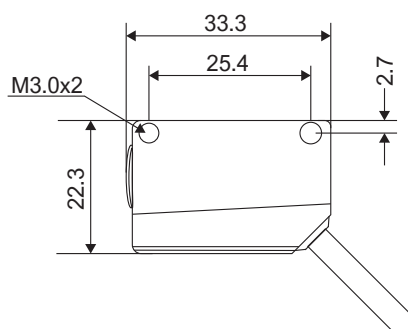
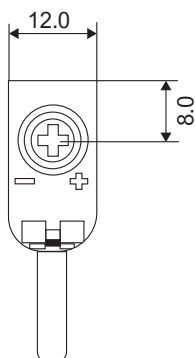


### Technical Specifications

Power Source Voltage	12-24VDC±10%including a ripple
Current Consumption	Max. 25mA
Control Output	PNP/NPN Open controller transistor, Maximum load current: 100mA Residual voltage: 2V or less(At 100mA load current) Residual voltage: 1V or less(At 16mA load current)
Response Time	Max. 1ms
Hysteresis	2% Max.(White dull paper)
Repeatability Accuracy	Along detection of shaft: lower than 1mm, Perpendicular to the detection axis:lower than 0.2mm
Setting Range	10 ~ 250mm
Sensing Range	35 ~ 140mm
Output Method	Light ON / Dark ON Selectable output
Light Source	Red LED (650nm)
Spot Diameter	Ø15mm (The distance at 300mm)
Indicator Light / Display	Out: Red / Power: Green
Range Setting Regulator	5-turn knob adjuster
Operating Temperature / Humidity	-10~+50C° / 35~85%RH (No freezing and No condensation)
Storage Temperature / Humidity	-10~+60C° / 35~85%RH (No freezing and No condensation)
Vibration Resistance	10~55Hz Amplitude 1.5mm 2 hours for each direction of X,Y and Z
Shock Resistance	500 m/s <sup>2</sup> , each 3 times for X/Y/Z axis
Circuit Protection	Reverse electrode protection, Short-circuit protection
Protective Category	IP67
Material	PC
Connection Type	2m Cable

### Dimensions

\*Unit : mm



### Model Selection

PR-B25P	PNP
PR-B25N	NPN