BH Series Laser Sensors

Features

- The Laser light source projects a 2mm spot at 400mm distance(Diffuse mode)
- Sn=30m(Through-beam mode), fast 250μs response time
- Compact size with Laser source, small 2mm diameter proected beam
- BGS(Background Suppression Type) Sensors are not influenced by the background, available with conventional laser light source
- 1mm projected spot size with BGS optical system (BHB Laser types)
- IP67 rating
- 2m cable /M8 Connector types are available

Applications

- Edge control(BHB)
- Height control of multi-colored object(BHB)
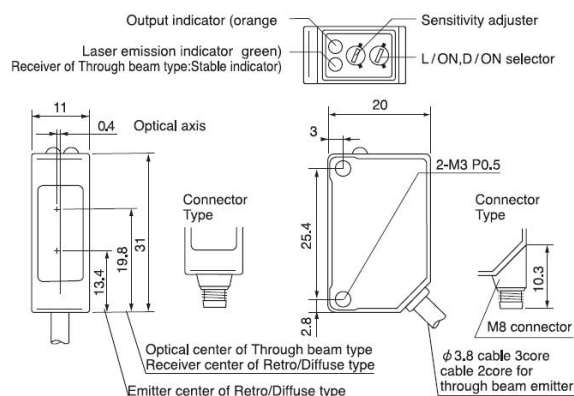- Counting metal parts
- Thin plates counting

CE

Sensing mode		Through-beam	Polarized Retro-reflective	Diffuse	BGS Laser Type	
Sensing distance		30m	10m (P250F Reflector)	400mm	50 … 300mm	20 … 100mm
Adjustable distance		/	/	/	10 … 300mm	2 … 100mm
Spot size		30mm/30m	10mm/8m	2mm/400mm	1.5mm/300mm	1mm/100mm
Hysteresis		/	/	<20%	<5%	<3%
Cable version	NPN	BHCH30MA	BHFH10MA	BHDH040A	BHBH030A	BHBH010A
	PNP	BHCG30MA	BHFG10MA	BHDG040A	BHBG030A	BHBG010A
M8 connector	NPN	BHCH30MG	BHFH10MG	BHDH040G	BHBH030G	BHBH010G
	PNP	BHCG30MG	BHFG10MG	BHDG040G	BHBG030G	BHBG010G

Specifications

Type	Laser sensor(31x20x11mm)				
Nominal Voltage	10-30VDC				
Rated Voltage	24VDC				
Rated Insulation Voltage	75VDC				
Residual Ripple	<10%				
Response Time	250μs				
Light Source	Laser(650nm)				
Laser Class (IEC)	Class 1	Class 2	Class 2	Class 1	Class 1
Laser Class (FDA)	Class I	Class II	Class II	Class I	Class I
Output Indicator	Yellow LED				
Laser Power Indicator	Green LED				
Sensitivity Adjustment	Single turn potentiometer			4-turn, adjustment pot	
Operating Mode	NO/NC selectable (Light on / Dark on)				
Protection Category	IP67				
Operating Temperature	-10 … 50°C				
Storage Temperature	-25 … 70°C				
Operating Humidity	35% … 95%°C				
Vibration	10~55Hz, width=1.5mm				
Shock	50G(500m/s^2)				
Housing Material	ABS				
Sensing Surface Material	PMMA				
Connection	2m cable / M8 connector				
Weight (g)	42g/35g				

Dimensions (mm)

General Use Type except BGS

BGS Type