



Specifications

Type	Accurate Type	Long Distance Type
Cabled Model	BGS-DL10T(N,P)-(E)	BGS-DL25T(N,P)-(E)
M8 Connector Model	BGS-DL10TC(N,P)-(E)	BGS-DL25TC(N,P)-(E)
Sensing Range *1	40~100mm	100~250mm
Supply Voltage	DC10 ~ 30V including 10% ripple (P-P)	
Current Consumption	40mA max. (12V) , 27mA max (24V)	
Response Time	1.5ms max. (fixed sensitivity)	
Repeat Accuracy *2	0.3mm/100mm	0.4mm/200mm
Timer	Off delay / On delay / One shot delay (1msec increment : 0~999msec, 1sec increment for 1~10sec)	
Light Source	Red laser diode (wave: 650nm Max. 1mW class2)	
Indicator	Output indicator (Orange LED), Laser emitter indication (Green LED)	
Digital Indicator	7 segment, 3 digits Red LED (function indicator, 0~999 distance index)	
Control Output	NPN/PNP open collector DC30V 100mA max.	
Operation Mode	Light ON/ Dark ON selectable	
Sensing Range Adjust.	Teaching / Manual setting	
Ambient Temp. / Humidity	-10~40°C / 35~85%	
Protection Cat. / Material	IEC standard IP67 housing : heat-resistant ABS(antibacterial) lens : PC button : TEEE	
Weight	cable type: about 68g / connector type: about 20g	

*1 100x100mm gray paper (90%)

*2 in the direction of optical axis

Warnings

Laser beam

- This item utilizes visible light laser beam and is subject to safety standard class 2(II) of JIS C6802 as well as IEC and FDA regulations.
- Must not stare into laser beam directly or reflection by mirror.
- Must not disassemble.
Automation stop function of laser emission is not equipped.

Digital indicator

- The numerical display is given in non-linear, and mean just relative values.
- 999 or 000 appears in case background or objects are out of scanning range.
- The farther the sensor is positioned to object, the bigger the numerical value is.

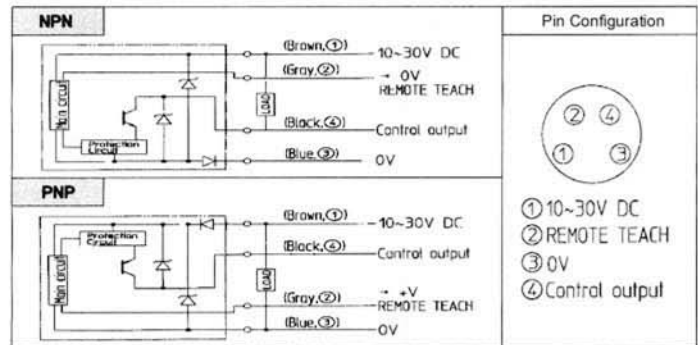
Cautions

- Warm-up period (apprx. 100 msec) must be secured.
- Should avoid to use sensor at any place where the receiver is influenced by environmental illuminance directly.
- Gaps in indicated values and detection features are possible due to dispersion.
- Use of controls or adjustments or performance of procedures other than the specified herein may result in hazardous radiation exposure.
- This product have already been registered at CDRH (Center for Devices and Radiological Health).

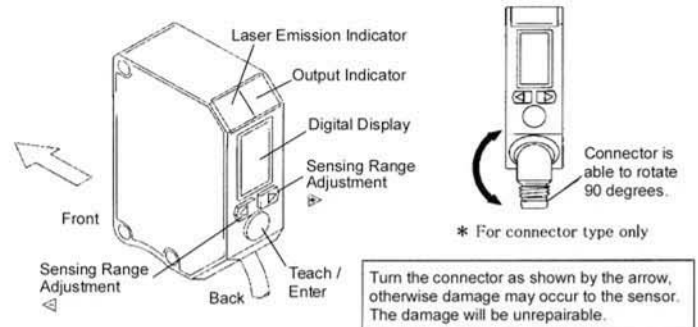


! Must not use this item as safety equipment for the purpose of human body protection.

Input/ Output circuit design

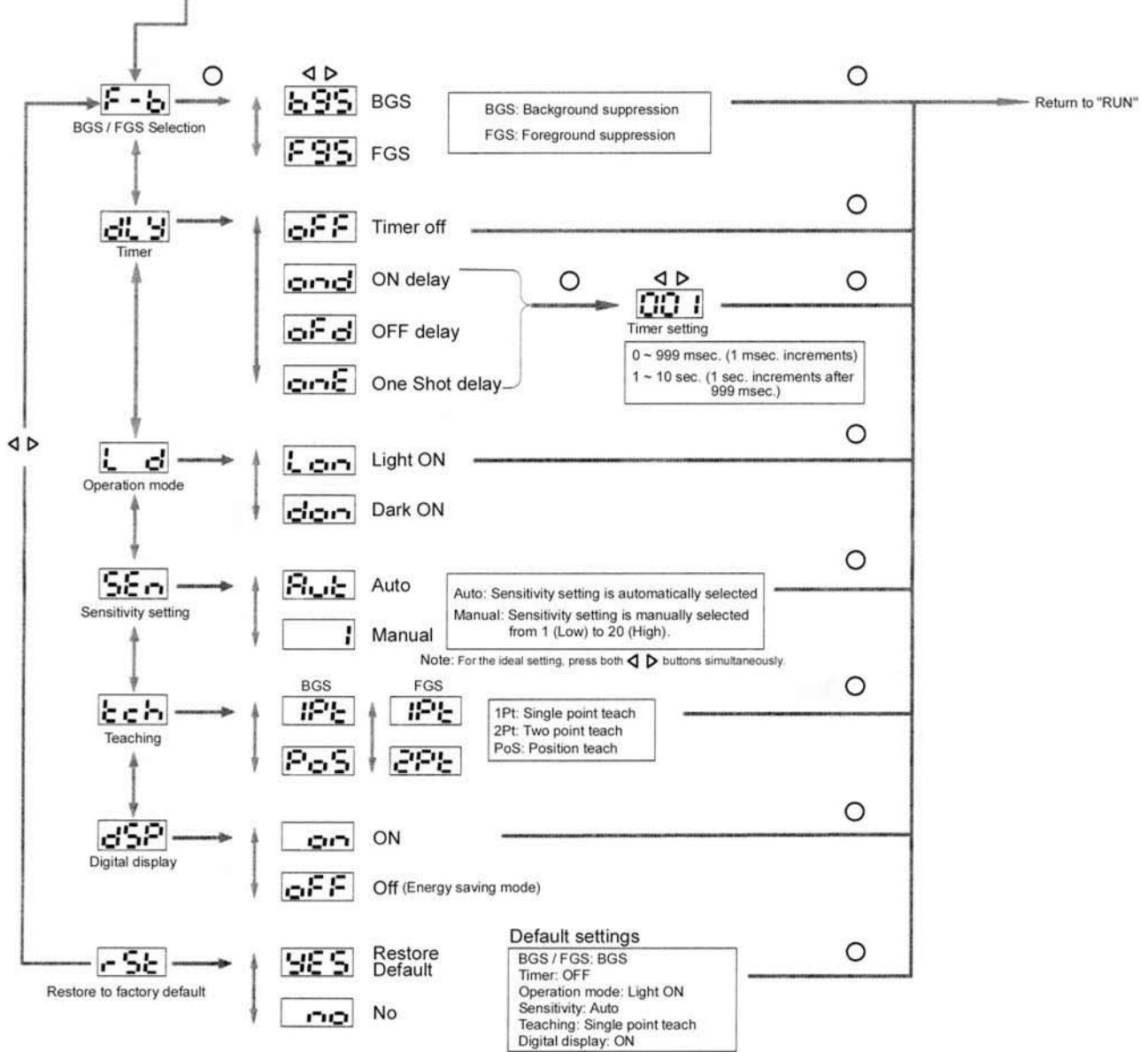


Parts name



Function to set up

Press the ◀ or ▶ button until **SEL** appears on the digital display (about 2 sec.). After releasing the button the functions will be available.



Keylock: Push both ◀ ▶ buttons simultaneously until **Loc** appears.
Use the same procedure to unlock **unL** the keys.

Push either ◀ or ▶ to check the threshold setting when the keys are locked.

