

Photoelectric Sensor

D SERIES Laser type

·DT- 4000 [C] discontinued Oct/2020 · DR- 500 PC (E) discontinued Oct/2020

BGS-DL10 discontinued Dec/2023 (a)

· BGS-DL30 discontinued Dec/2023 (a)

(a) Last Date of Order For BGS-DL10 and BGS-DL30 is: **December 31, 2023**

INSTRUCTION MANUAL

Specifications BGS type Through beam type Retro reflection type Accurate type Longer type DT-4000 (N, P)-(E) Cable type DR-500 (N, P)-(E) BGS-DL10 (N, P) - (E) BGS-DL30 (N, P) - (E) DT-4000C (N, P)-(E) DR-500C (N, P)-(E) BGS-DL10C (N, P) - (E) BGS-DL30C (N, P) - (E) M8 connector type Setting rang 40 m 5m *1 Supply voltage DC10 ~ 30V including 10% ripple (P-P) Current consumption 40mA max. 30mA max. 35mA max. Response time 0.5ms max

0.5mm/20m 0.3mm/5m Repeat accuracy Red Laser diode WL: 650nm Max. 2mW class 2) Light sourc

Output indicator Orange LED Source pilot lamp Green LED) Output indicator Orange LED), Laser emitter indication (Green LED) Indicator Laseremitterindication (Green LED)

NPN/PNP open collector DC30V 100mA max Control output

Light ON / Dark ON Switchable Operation mod 1-turn volume

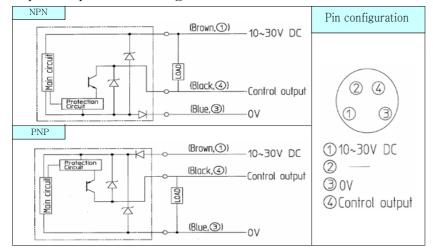
ensitivity adjustment -10~40°C / 35~95% Ambient tem/ humid

housing: heat-resistant ABS(antibacterial) lens: PC button: NBR Protect category/materi IEC Standard IP67 cable type: about 66g / connector type: about 20g

*1 with reflector P250F

*2 in the vertical direction of optical axis (theoretical value)

Input/Output circuit design



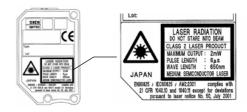
Warnings

Laser beam

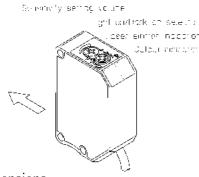
 $\label{thm:continuous} O\ \ This itemutilizes visible light laser beam and is subject to safety standard$ class 2(II) of JIS C6802 as well as IEC and FDA regulations.

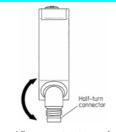
0.2 mm / 300 mm

- O Must not stare into laser beam directly or reflection by mirror.
- O Must not disassemble. Automatic stop function of laser emission is not equipped.
- O This product have already been registered at CDRH (Center for Devices and Radiological Health).



Parts name





*For connector type only

Turn the connector as Black Arrow indicat otherwise you will damage the connector. The amage will be unrepairable.

Floor installation

Cautions

- \bigcirc Warm-up period (apprx. 100 msec.) must be secured.
- O Should avoid parallel wiring with high-voltage wire and/or power line. Never install in same conduit.
- O Avoid dust, oil and water adhesion to sensor forehead to escape light's insulation and refraction.
 - In case of adhesion, wipe with dustless cloth or lens cleaner.
- In case of switching regulator, frame ground (FG) must be grounded.
- $\bigcirc \ \ \text{Use of controls or adjust ments or performance of procedures other}$ than those specified herein may result in hazardous radiation exposure.
 - ! Must not use this item as safety equipment for the purpose of human body protection.

• Specifications and equipment are subject to change without any obligations on the part of manufacture.

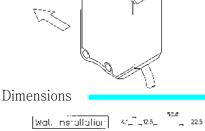
• For more information, questions and comments regarding products, please contact us below.

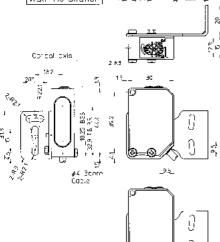
Manufactured and sold by :

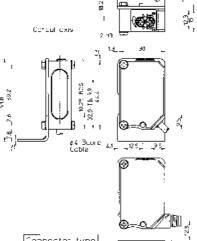
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M/J Apin Contector