

Carefully read and understand the safety precautions before operation. The important information is provided to protect your health and property. Do not apply any other installing or operating procedure other than that described in this manual.

Safety Precautions

- CAUTION
 OIt is dangerous to wire or attach/remove the connector with the power on. Make sure to turn off the power before operation.

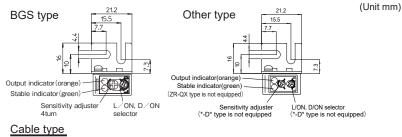
 • Make sure to use the product with the protective
 - Make sure to use the product with the protective cover attached and closed.
 Installing in the following places may result in malfunction:
 1.A dusty or stearny place
 2. A place generating corrosive gas
 3. A place directly receiving scattering water or oil.
 4. A place sidered from heavy vibration or impact.
 The product is not designed for outdoor use.
 Do not use the sensor in transient state after power on (approx. 100 ms).
 Do not wire with the high voltage cable or the power line.

 - Do not wire with the high voltage cases of the post-line.
 Failure to do this will cause malfunction by induction or damage.
 The sensor performance or digital display values may depend on the individual units or the condition of detected product.
 This product is not an explosion-proof construction. Do not use the product under flammable, explosive gas or liquid environment.
 Do not use the product in water.
 Do not disassemble, repair, or convert the product. Failure to do this may cause failure, fire, or electric shock.

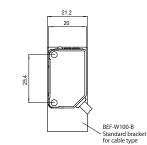
 - Operate within the rated range
 - Do not bend the cable when below the freezing point

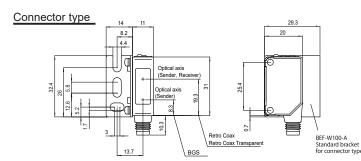
 - This product cannot be used as a safety device to protect human body.

DIMENSIONS



1.2 П optical axis £ 12.4 Retro Coa: Retro Coax, Tra BGS





! 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 product s, please contact us below.

SPECIFICATION =

		Retro Coax.	Retro Coax. Transparent	BGS		
[Cable type	ZR-X250(N,P)	ZR-QX200(N,P)	BGS-Z10(N,P)	BGS-Z15(N,P)	BGS-Z30(N,P)
	Connector type	ZR-X250C(N4,N3,P4,P3)	ZR-QX200(N4,N3,P4,P3)	BGS-Z10C(N,P)	BGS-Z15C(N,P)	BGS-Z30C(N,P)
Detecting distance		0~2.5m(V-61)	0~2m(P250F)	5~100mm *1	5~150mm *1	10~300mm *1
Light Source		Red LED				
Spot size		φ60 mm / at 2m		ϕ 10 mm / at 100 mm	ϕ 10 mm / at 100 mm	ϕ 30 mm / at 300 mm
Supply voltage		DC10 ~ 30 V Including ripple (P-P) 10%				
Current consumption		20m A max.		30m A max.		
Response time		250µs max.		500µs max.		
Control output		NPN / PNP Open collector 100m A max. /DC 30 V				
Operation mode		Light ON, Dark ON Selectable by switch				
Sensitivity adjustment		1 turn volume		4 turn volume (endless)		
Indicators		Output indicator (orange LED) / Stable indicator (green LED)	Output indicator (orange LED)	Output indicator (orange LED) / Stable indicator (green LED)		
Ambient temp./ humidity		-25 ~ 55 °C / 35 ~ 85 %RH				
Protection category / material		IP67 / Case : ABS (glass fiber included) Front cover, Lens : PMMA				

%1 White 90% 100x100 mm

Load

Load circ

NPN Type

PNP Type

Protection

Main

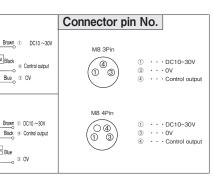
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INPUT AND OUTPUT CIRCUIT DIAGRAMS

Blue © OV

Brown 00 DC10~30V

^{uit} Blue 3 OV

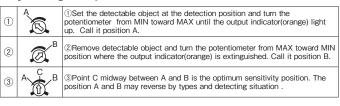


Tightening torque need to be under 0.5N · m

Attachment



Adjusting the potentiometer



Reflectors =

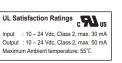
●Type: V-61 (Included ZR-X type.) 2.5m : ZR-X types

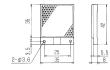
●Type: V-42 (Optional) 1.5m : ZR-X type



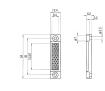
Type : P250F (Included ZR-QX type.) 2.0m : ZR-QX200 only







●Type:P45 (Optional) 0.8m : ZR-X types







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