

		Through	Retro ref.	Diffused ref.	Transparent objects	Limited range	
	Cable type	Z3T-2500(N/P)	Z3R-400(N/P)	Z3D-100(N/P)	Z3R-Q200(N/P)	Z3D-L09(N/P)	
	Connector type	Z3T-2500C(N4/P4)	Z3R-400C(N4/P4)	Z3D-100C(N4/P4)	Z3R-Q200C(N4/P4)	Z3D-L09C(N4/P4)	
Nominal distance <sup>*1</sup>		25m	0.01~4m	0~1m	0.01~2m	10~90mm	
Light Source		Red LED					
Spot size		φ 1800mm /25 m	arphi 280mm /4 m	$\varphi$ 75mm /1200mm	φ 140mm/2 m	arphi 8mm /90mm	
Supply voltage		DC10 ~ 30V Including ripple (P-P) 10%					
		Sender : 20mA max	20mA max	25mA max	20mA max		
		Receiver : 15mA max.					
Response time		500µs max					
Control output		NPN/PNP Open collector 100mA max. / DC30V max. (Residual voltage 1.8V max.)					
Operation mode		Light ON, Dark ON Selectable by switch					
Sensitivity adjustment		1 turn volume					
Indicator		Output indicator (orange LED) / Stable indicator (green LED)					
Ambient temp. / humidity		-25 ~ 55°C /35 ~ 85%RH (No condensation or freezing)					
Storage temp. / humidity		-40 $\sim$ 70°C /35 $\sim$ 95%RH (No condensation or freezing)					
protection category/material		IP67 / Case : ABS , Front Cover : PMMA					

## Attachment

- Tightening torque need to be under 0.5N•m. • Use M3 screw to mount.
  - Canan Finite

## DIMENSIONS

Brackets for installation are optional and not included in this kit. (Not standard accessory and please purchase if needed.)



# Cable type : When using brackets of BEF-W100-B (option)



## Connector type : When using brackets of BEF-W100-A (option)



# Adjusting the potentiometer

/							
1	R	Set the detectable object at the detection position and turn the potentiometer from MIN toward MAX until the output indicator(orange) light up. Call it position A.					
2		Remove detectable object and turn the potentiometer from MAX toward MIN position where the output indicator(orange) is extinguished. Call it position B.					
3		Point C midway between A and B is the optimum sensitivity position. The position A and B may reverse by types and detecting situation .					

# **Reflectors** (option)

For Retro Reflective use only

Please confirm appropriate type considering sensing distance and conditions to use Reflectors are optional and not included in this kit.

- (Not standard accessory and please purchase if needed.)
  - Standard Type Type : V-61 Sensing distance : 0.01~4m(Retro Reflective Type)





●Small reflector Type: P-45A Sensing distance: 0.01~1.4m(Retro Reflective Type)



Manufactured and sold by :

# OPTEX FA CO., LTD.

Ramco Innovations

www.optex-ramco.com

Small reflector Type: V-42 Sensing distance: 0.01~2.4m(Retro Reflective Type)

Brown 0 10C10 ~ 30V

Blue O 30V

M8 4pir

60

0 3

 DC10~30V ③ · · · 0V ④ · · · Control output

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