

# Photoelectric sensor Z2 Series

20meter type : Z2T-2000 Thru-beam  
 4meter type : Z2R-400 Retro-reflective  
 80cm type : Z2D-80 Diffuse-reflective



Best-in-class Photosensors realized by high power LED.

3 basic types with sensing distance of **25** meter (thru-beam)

Have a look at  
Z series brochure, too.

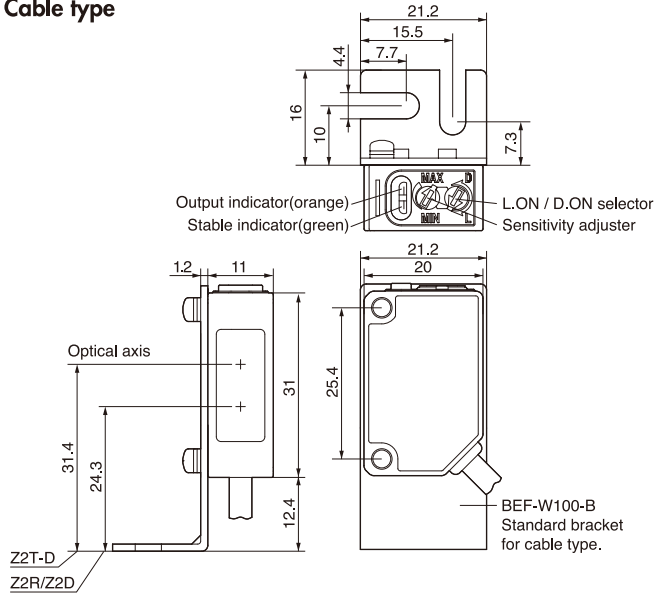
## Z2 series Products

Model		Thru-beam	Retro-reflective	Diffuse-reflective
Cable Type	NPN	Z2T-2000N	Z2R-400N	Z2D-80N
	PNP	Z2T-2000P	Z2R-400P	Z2D-80P
M8 QD Type	NPN	Z2T-2000CN4	Z2R-400CN4	Z2D-80CN4
	PNP	Z2T-2000CP4	Z2R-400CP4	Z2D-80CP4
Sensing distance		25 m	0.01~4.4 m	0~100 cm

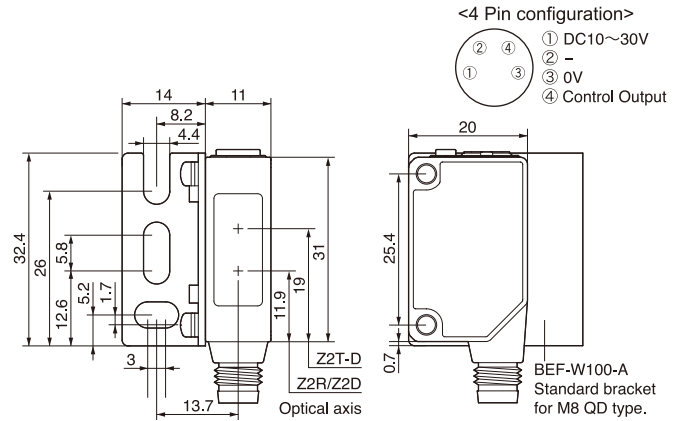


# Dimensions (mm)

## Cable type

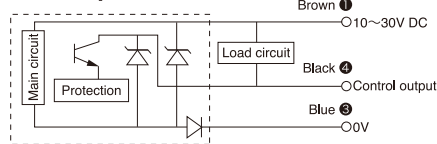


## M8 QD type

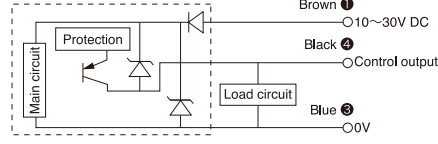


# Circuit diagram

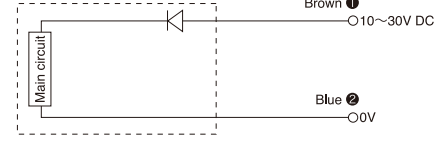
## NPN output



## PNP output

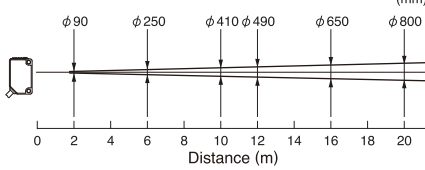


## Emitter of Thru-beam type

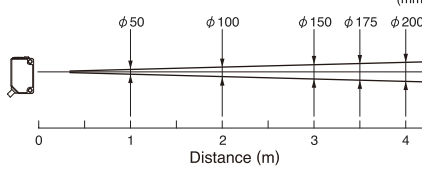


# Spot size

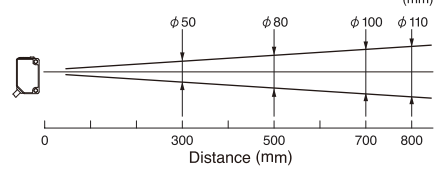
## Z2T-2000



## Z2R-400



## Z2D-80



# Specifications

Model	Thru-beam	Retro-reflective	Diffuse-reflective
Cable type	Z2T-2000(N,P)	Z2R-400(N,P)	Z2D-80(N,P)
M8 QD type	Z2T-2000C(N4,P4)	Z2R-400C(N4,P4)	Z2D-80C(N4,P4)
Sensing distance	25m	0.01~ 4.4 m ※1	0~ 100 cm ※2
Response time	500μs max.		
Spot size	φ800mm @ 20m	φ200mm @ 4m	φ110mm @ 80cm
Operating mode	Light ON / Dark ON selectable		
LED Indicator	Output : orange, Stable : green		
Light source	Red LED		
Sensitivity adjustment	1-turn volume		
Control output	NPN or PNP Open collector, 100mA Max. DC30V Max. (Residual voltage 1.8V Max.)		
Supply voltage	DC10-30V Including 10% ripple(P-P)		
Power consumption	Sender : 20mA Max.	20mA Max.	
	Receiver : 15mA Max.		
Protection category	IP67		
Shock Resistance	100G		
Vibration Resistance	10-55Hz, 15mm X,Y,Z, each. 2 hours		
Ambient temp. / humidity	-25~55°C / 35~85% RH (No condensation or freezing)		
Storage temp. / humidity	-40~+70°C / 35~95% RH (No condensation or freezing)		
Material	Case : ABS (glass included) Front Cover , Lens : PMMA		

※1. Reflector V-61

※2. White 90% 100mm×100mm

- Specifications are subject to change without prior notice.
- Specifications and technical information not mentioned here are written in Operation Manual. Or visit our website for details.
- All the warnings and cautions to know prior to use are given in Operation Manual.



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