

ZL Series, compact size with Laser light source. IP67 rating and 100G shock resistance.

Response as fast as 250 micro sec !



(Through-Beam type)

- NPN : 2m cable **ZT-L3000N**
- NPN : M8 connector **ZT-L3000CN**
- PNP : 2m cable **ZT-L3000P**
- PNP : M8 connector **ZT-L3000CP**

(Retro Reflective type)

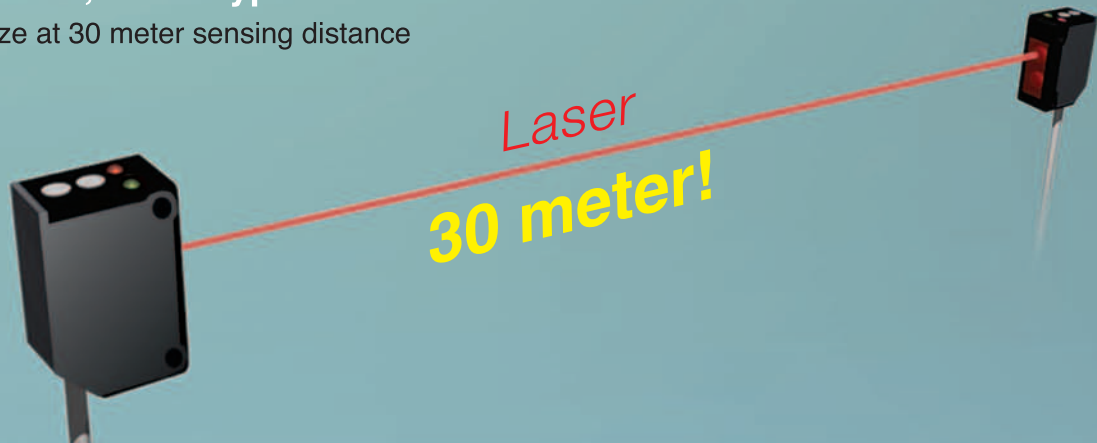
- NPN : 2m cable **ZR-L1000N**
- NPN : M8 connector **ZR-L1000CN**
- PNP : 2m cable **ZR-L1000P**
- PNP : M8 connector **ZR-L1000CP**

(Diffuse fine spot type)

- NPN : 2m cable **ZD-L40N**
- NPN : M8 connector **ZD-L40CN**
- PNP : 2m cable **ZD-L40P**
- PNP : M8 connector **ZD-L40CP**

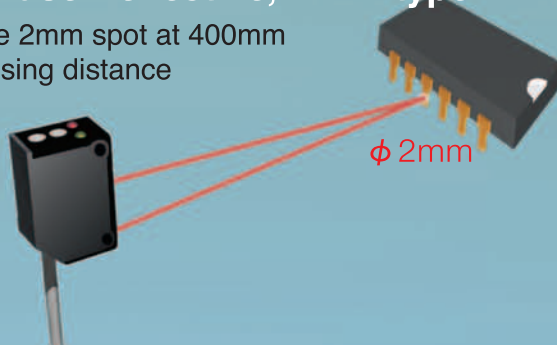
Through-beam, ZT-L type

30mm spot size at 30 meter sensing distance



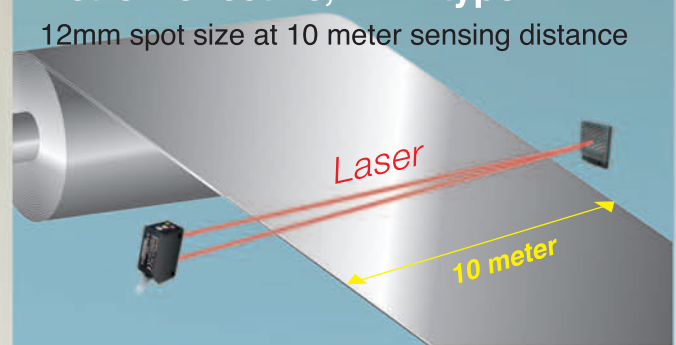
Diffuse Reflective, ZD-L type

Fine 2mm spot at 400mm sensing distance

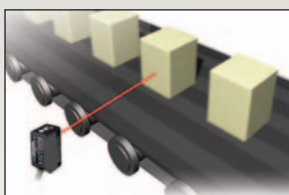


Retro Reflective, ZR-L type

12mm spot size at 10 meter sensing distance



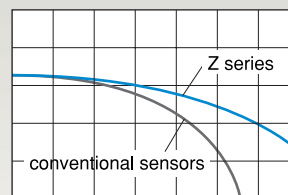
Features



Fully laden functions and toughness with low cost. 100G jumps over clattering and shaky job site.



Hose it down! Water-tightness is tested to IP67.



Power consumption: 20mA
Less burden to LED gives it the longest lifetime among this kind of sensor class.

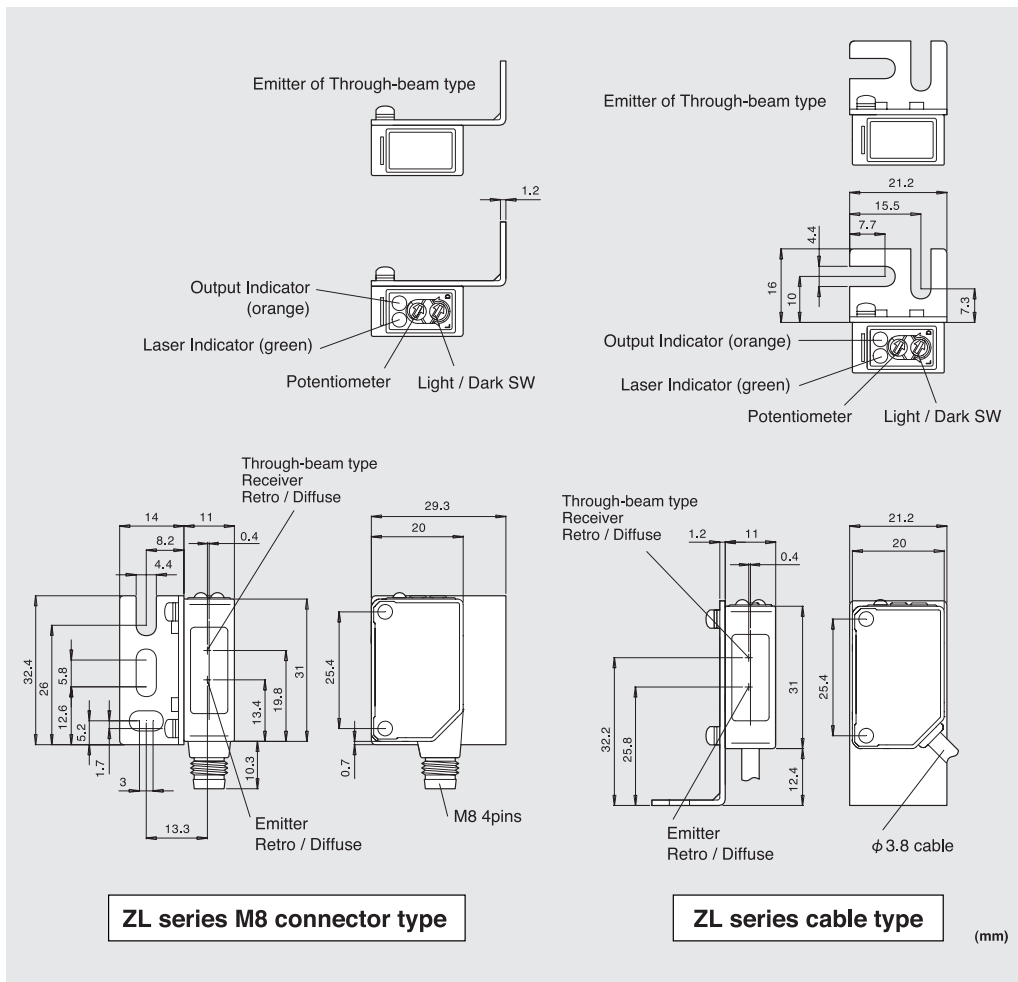


Built-in screw hole. Preventing sensor from being damaged when it's mounted.

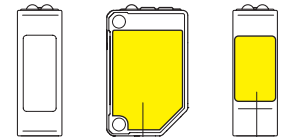
Specifications

Item		Through Beam	Retro reflective	Diffused reflective
2m Cable Type	NPN	ZT-L3000N	ZR-L1000N	ZD-L40N
	PNP	ZT-L3000P	ZR-L1000P	ZD-L40P
M8 connector type	NPN	ZT-L3000CN	ZR-L1000CN	ZD-L40CN
	PNP	ZT-L3000CP	ZR-L1000CP	ZD-L40CP
Sensing range		30meter	0.08~10meter (Reflector P250F)	400mm
Spot size		30mm/30meter	12mm/10meter	2mm/400mm
Response time			0.25ms	
Hysteresis			-	20%
Operating temp.			-10 ~ +50°C	
Operating humidity			35 ~ 85%	
Storage temp./humidity			-25 ~ +70°C/35 ~ 95%	
Vibration			10 ~ 55Hz width 1.5mm	
Shock			100G	
Protection category			IP67	
Emitter			Laser (650nm)	
Laser class		IEC class 1 (FDA class II)	IEC class 2 (FDA class II)	
Supply voltage			DC10~30V Inc. 10% ripple	
Current consumption		30mA max.	20mA max.	
Indication Output			Orange(Yellow) LED	
Laser Indicator			Green LED	
Sensitivity adjustment			1 turn	
Mode selection			D on/ L on selectable by switch	
Connection			2m cable / M8 connector	

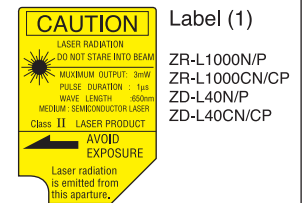
Dimensions



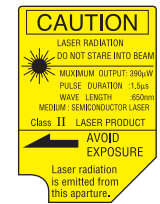
US: This product has been already reported to CDRH.



FDA warning / Laser open label (1) or (2)
Certification label (3)



Label (1)
ZR-L1000N/P
ZR-L1000CN/CP
ZD-L40N/P
ZD-L40CN/CP



Label (2)
ZT-DL
ZT-DLC



Label (3)

Warnings DO NOT stare the beam directly and expose eyes to laser beam, it will damage and harm eyes and health.

● Specifications and technical information not mentioned here are written in Operation Manual. Or visit our website for getting details.
● All the warnings and cautions to know prior to use are given in Operation Manual.



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