

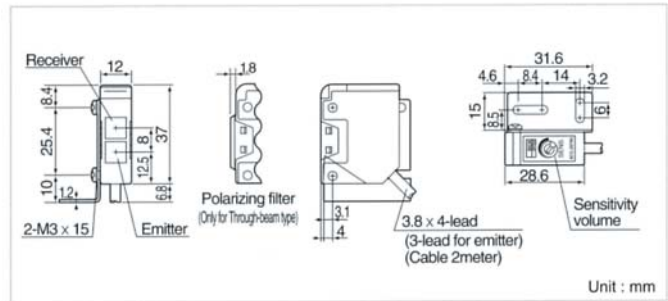
*Protected By Metal Housing, Ideal For Glass / Transparent Objects*

# KR-Q series

Most popular type for PET bottle detection, TFT and glass objects. Best seller sensor for glass and transparent objects.



## Dimensions



## Specifications

Type			Z Series						
			Thru-beam	Retro-reflective	Diffuse reflective	Convergent beam	Transparent Detection		
Model Number	Cable Type	NPN	<b>KT-700N</b>	<b>KR-250N</b>	<b>KD-40N</b>	<b>KD-L09N</b>	<b>KR-Q50NW</b>	<b>KR-Q150NW</b>	<b>KR-Q300NW</b>
		PNP	<b>KT-700P</b>	<b>KR-250P</b>	<b>KD-40P</b>	<b>KD-L09P</b>	<b>KR-Q50PW</b>	<b>KR-Q150PW</b>	<b>KR-Q300PW</b>
	M8 QD Type	NPN	<b>KT-700CN</b>	<b>KR-250CN</b>	<b>KD-40CN</b>	<b>KD-L09CN</b>	<b>KR-Q50CNW</b>	<b>KR-Q150CNW</b>	<b>KR-Q300CNW</b>
		PNP	<b>KT-700CP</b>	<b>KR-250CP</b>	<b>KD-40CP</b>	<b>KD-L09CP</b>	<b>KR-Q50CPW</b>	<b>KR-Q150CPW</b>	<b>KR-Q300CPW</b>
Sensing Range			7 meter	2.5 meter	400 mm	10 - 90 mm	500 mm	1.5 meter	3 meter
Hysteresis			-----	-----	20% max.	10% max.	-----	-----	-----
Min. Detectable Object			∅7 mm	∅40 mm	-----	-----	∅40 mm Opaque	∅40 mm Opaque	∅40 mm Opaque
Supply Voltage			10 ~ 30 VDC incl. 10% ripple						
Current Consumption			35 mA max.	20 mA max.					
Response Time			1 msec.	0.7 msec.					
Control Output			NPN or PNP Open Collector Transistor, 100 mA / 30 VDC Max.						
Operation Mode			Selectable Light-On or Dark-On operation						
Light Source			Red LED						
Sensitivity Adjustment			None	Single turn potentiometer					
Regulation			JIS/C4525, CE, CUL, VDE						
Indicators			Output Indicator						
Ambient Temperature			Operation: -25 <sup>o</sup> to +55 <sup>o</sup> C						
Ambient Humidity			35 to 85 % RH (No freezing)						
IP Protection			IEC 144 IP67, VDE level 3						
Shock Resistance			100 G (1,000 m/s), X-Y-Z 3 ways						
Environment Illuminance			Sunlight: 20,000 lux, Incandescent Lamp: 4,000 lux						
Material			Case: ABS , Lens: PC (Retro-reflective PMMA), Metal cover: SUS304						
Accessories			Mounting brackets	Mounting bracket Reflector # V-61	Mounting bracket		Mounting bracket, Reflector # V-61		

Note: Cables are not included with the QD sensor, please order separately.