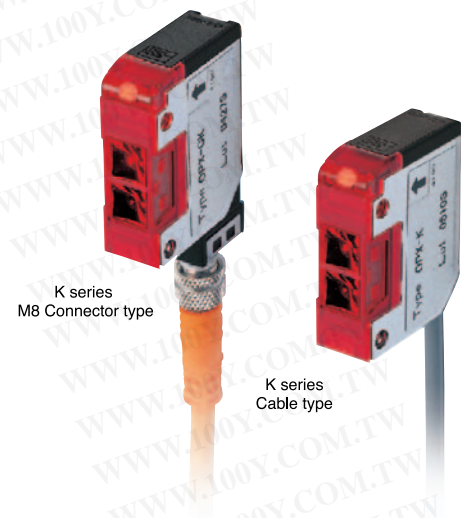
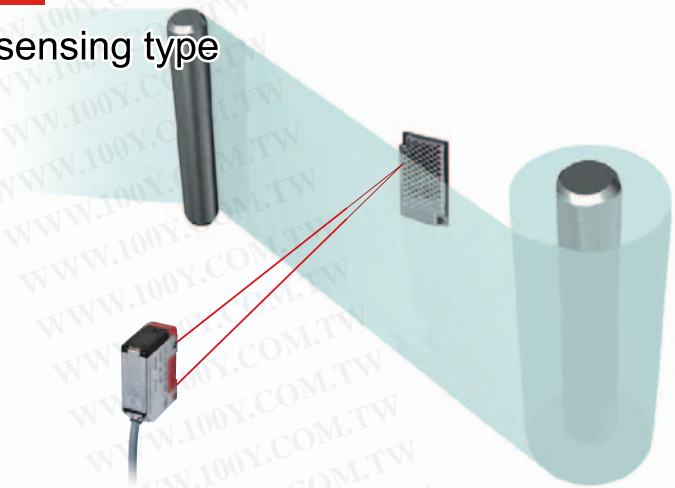


World standard of glass / transparent sensing type

KR-Q series

Stable sensing of PET, TFT, CRT and film is possible up to 3 meter distance. Regular family of product (Retro, Diffuse, Through-Beam, and Convergent types) are also listed.

- Through-beam type
KT-700N/KT-700P : 7m
- Retro-reflection type with polarizing filter
KR-250N/KR-250P : 2.5m
- Diffused reflection type
KD-400N/KD-400P : 400mm
- Convergent type
KD-L09N/KD-L09P : 10 to 90mm
- Transparent objects type
KR-Q50NW/KR-Q50PW : 500mm
KR-Q150NW/KR-Q150PW : 1.5m
KR-Q300NW/KR-Q300PW : 3m
- Connector versions are available for all types



Features

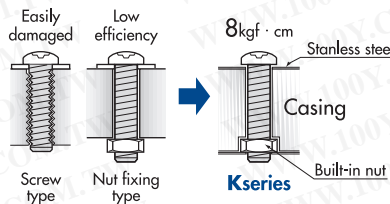
Stainless steel casing which protects the sensor from side impacts.

The stainless steel casing protects the sensor from damage when it is struck by the sharp edges or corners of passing objects.



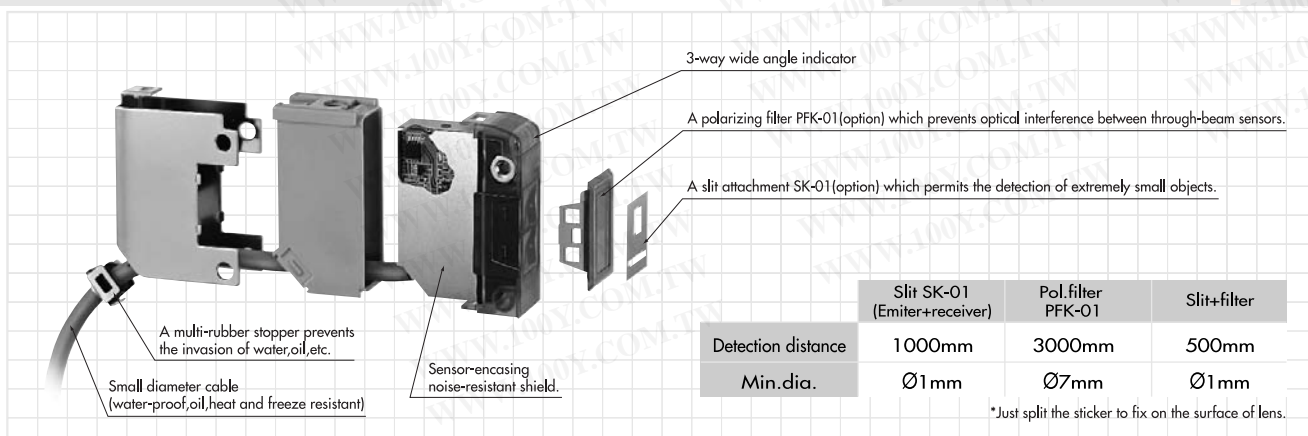
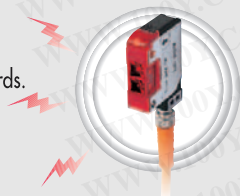
Built-in nuts which cannot be damaged by over-tightening

The built-in nuts make installation easy and efficient, eliminating the problem of thread damage caused by over-tightening.



Surpasses the VDE standard for electrical noise immunity.

The noise resistant circuitry is built-in accordance with the strict VDE standard. Further in-house Feilen Noise testing assures high reliability and compliance with international standards.



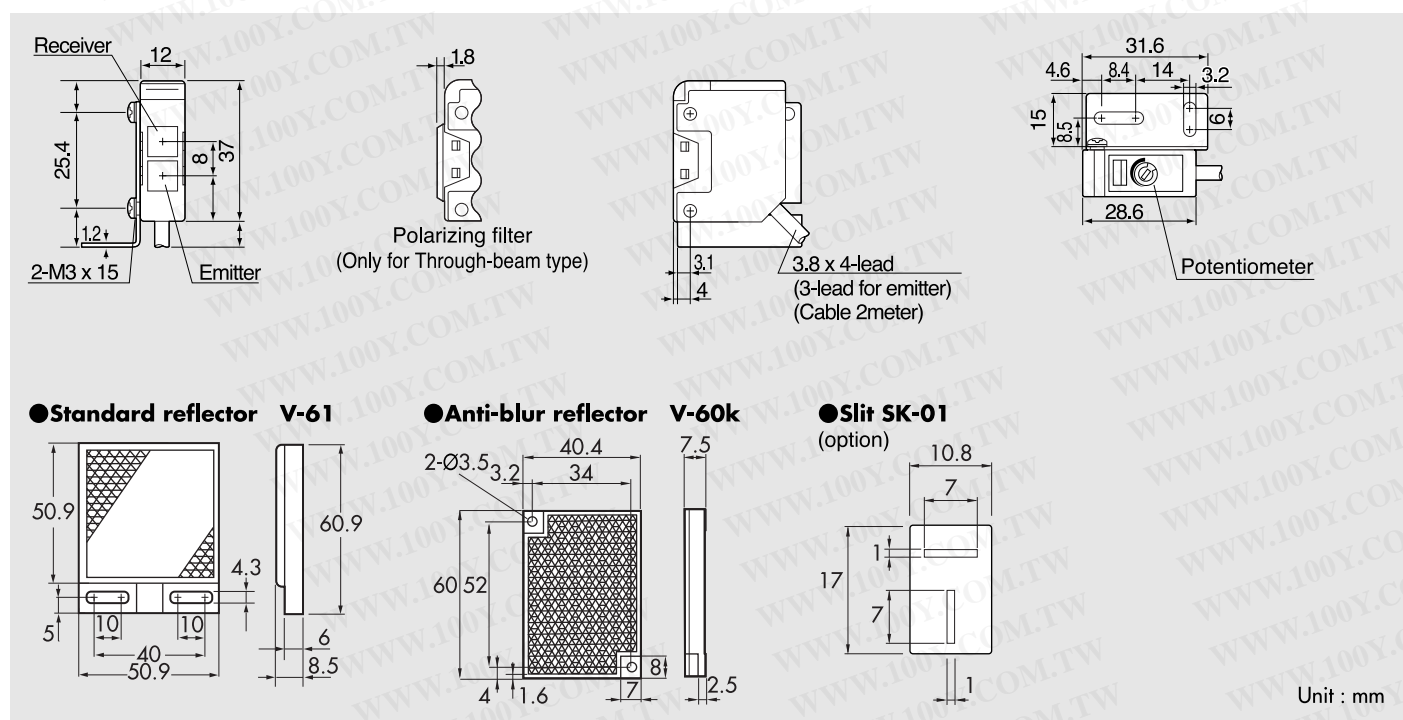
Types numbers(Example of cable type. Add "c" after numbers if you would need M8 connector types)

Types	Detecting distance	Light ON Dark ON	Sensitivity adjustment	Red LED	Test input	Supply voltage	Output	Model number
Through-beam	7m	●	—	●	●	10~30V DC	NPN/PNP	KT-700N/KT-700P
Retro-reflection	2.5m	●	—	●	—		NPN/PNP	KR-250N/KR-250P
Diffuse-reflection	400mm	●	●	●	—		NPN/PNP	KD-40N/KD-40P
Convergent	10 to 90mm	●	●	●	—		NPN/PNP	KD-L09N/KD-L09P
Transparent objects	500mm	●	●	●	—		NPN/PNP	KR-Q50N/KR-Q50P
	1.5m	●	●	●	—		NPN/PNP	KR-Q150N/KR-Q150P
	3m	●	●	●	—		NPN/PNP	KR-Q300N/KR-Q300P

Specifications

Model	Through-beam	Retro-reflection (with polarizing filter)	Diffuse reflection	Limited range (convergent)	Glass sensing		
Cable type NPN/PNP	KT-700N / KT-700P	KR-250N / KR-250P	KD-40N / KD-40P	KD-L09N / KD-L09P	KR-Q50NW / KR-Q50PW	KR-Q150NW / KR-Q150PW	KR-Q300NW / KR-Q300PW
M8 connector type NPN/PNP	KT-700CN / KT-700CP	KR-250CN / KR-250CP	KD-40CN / KD-40CP	KD-L09CN / KD-L09CP	KR-Q50CNW / KR-Q50CPW	KR-Q150CNW / KR-Q150CPW	KR-Q300CNW / KR-Q300CPW
Sensing range	7m	2.5m	40cm	1 - 9cm	50cm	1.5m	3m
Light source	Red						
Min objectives	Ø7mm	—	Ø40mm	—	Ø2.5mm (steel wire)		
Response time	1msec.Max.	—		0.7msec.Max.	—		
Hysteresis	NIL		20% Max.	10% Max.	NIL		
Sensitivity adjustment	Not equipped		Single turn Potentiometer				
Indicator	Single Indicator						
Control output	NPN or PNP Open collector, 100mA Max / 30V DC						
Test input	Equipped	Not equipped					
Operation Mode	Light ON/Dark ON switchover						
Insulation resistance	Min. 20 M Ohm/DC500V						
Supply voltage	10 to 30 V DC including 10% of ripple						
Power consumption	35mA Max.	30mA Max					
Conformity	JIS, UL, CE, VDE						
Ambient Temp/Humid	-25 to 55℃ / 35 to 85% RH						
Environment illuminance	Sunlight:20,000lux max., Incandescent lamp:4,000 lux max.						
Vibration resistance	10 50 55 Hz amplitude 1.5mm, X-Y-Z for 2 hours						
Protection category	IEC 144 IP67, VDE Level3						
Housing Material	ABS(Case), PC(Lens), SUS304(Cover)						
Weight(Net)	25g(20g for emitter of through-beam type)					25g	

Dimensions



*Technical date, specsheet, instruction manual and this catalogue is available for download. Visit our Website ; <http://www.optex-fa.com>
For technical support please call our authorized distributor in your country that is also listed in our Website.

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