

Transparent object sensor selection guide

Digital laser type
DR-Q series P.396



High-accuracy detection is possible thanks to a Class 2 laser and coaxial reflection structure

Stable detection over long periods is possible using an automatic sensitivity correction function

New standard type
Z3R-Q series P.404



4 element red LED

Industry standard size. Mounting hole pitch: 25.4 mm

Coaxial type
ZR-QX series P.404



Industry standard size. Mounting hole pitch: 25.4 mm

ZR-QX allows for high-accuracy detection using a coaxial reflection structure

Standard type
KR-Q series P.412



Stable detection using an original QX circuit and refracted light eliminate function

Wide selection of varying sensing distances (max. 2.5 m)











Photoelectric Sensors

Specialized Photoelectric Sensors

Laser Displacement Sensors

Transparent Object Sensors







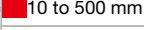
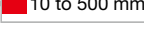





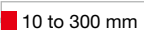
Model selection

Types/material of detected workpieces	Type	Series	Main features	
Glass, plastic bottles, plastic, film, etc. 	High-accuracy laser 	DR-Q 	Response time 4-stage switching is possible between 0.35 ms, 0.7 ms, 2 ms, 5 ms Detection stabilizing function ASC (Automatic Sensitivity Correction function) Utility <ul style="list-style-type: none"> ○ Teach input or Laser OFF input ○ Digital monitor ○ ON delay, OFF delay, One-shot timer function ○ Can also detect workpieces through a hole by way of the coaxial reflective structure Degree of protection IP67	
Plastic bottles, plastic, film, etc. 	Standard	KR-Q 	Response time 0.7 ms Utility Types with a refracted light eliminate function are also available Degree of protection IP67	
Plastic, film, etc. 	Standard	ZR-QX 	Response time 0.5 ms Utility <ul style="list-style-type: none"> ○ Can also detect workpieces through a hole by way of the coaxial reflective structure ○ Industry standard size Degree of protection IP67	
		Z3R-Q 	Response time 0.5 ms Utility <ul style="list-style-type: none"> ○ 4 element red LED ○ Industry standard size Degree of protection IP67	
Plastic bottles, transparent objects 	Small	SR-Q 	Response time 0.7 ms Utility Refracted light eliminate function Degree of protection IP67	

Small type
SR-Q series P.412



Can be mounted in narrow spaces thanks to its small size

Distance adjustment	Other	Sensing distance	Model	Page
Teaching type  <input type="radio"/> Manually adjustable <input type="radio"/> Teach input		Laser  0 to 4 m	DR-Q400T □	P.396
		Laser  0 to 1.5 m	DR-Q150T □	P.396
Potentiometer 	Refracted light eliminate function	 0.01 to 2.5 m	KR-Q300 □W	P.412
		 0.01 to 1.5 m	KR-Q150 □W	P.412
		 10 to 500 mm	KR-Q50 □W	P.412
		 10 to 500 mm	KR-Q50 □	P.412
Potentiometer 		 0 to 2 m	ZR-QX200 □	P.404
Potentiometer 		 0.01 to 2 m	Z3R-Q200 □	P.404
Potentiometer 		 10 to 300 mm	SR-Q50 □W	P.412