

Q31 SERIES PHOTOELECTRIC SENSOR (10-30VDC)

Series	Q31	Q31	
Sensing Mode	Retro-reflective	Retro-reflective (For transparent)	
Sensing Schematic			
Sensing Range	0.1~4M	0.1~0.7M	
Supply Voltage	10-30VDC (±10%)	10-30VDC (±10%)	
Absorption At 30VDC	<35mA	<35mA	
Max. Load current	100mA	100mA	
Voltage Drop (Sensor ON)	≤2.0V (I=100mA)	≤2.0V (I=100mA)	
Switching Hysteresis	<15%(Sr)	<15%(Sr)	
Output	PNP or NPN	PNP or NPN	
Output Operation	Light On & Dark On	Light On & Dark On	
Response Time	1ms	1ms	
Start Up Delay	300ms	300ms	
Emitting Element	Infrared (880nm)	Infrared (880nm)	
Protection Category	IP67	IP67	
Operating Temperature	-25°C - +55°C	-25°C - +55°C	
Light Immunity	>10.000Lux	>10.000Lux	
Sensitivity Adjustment	Trimmer 1 turn	Trimmer 1 turn	
Short Circuit Protection	Yes	Yes	
Reverse Polarity Protection	Yes	Yes	
Indicator	Yellow LED: output; Green LED: Power Supply	Yellow LED: output; Green LED: Power Supply	
Sensing Object	Q51 Mirror	Q51 Mirror	
Housing Material	ABS	ABS	
2m PVC Cable (3.0φ 4x0.15)	NPN Light On & Dark On	PPQ31-R4N-C1V2	PPQ31-R07N-C1V2/T
	PNP Light On & Dark On	PPQ31-R4P-C1V2	PPQ31-R07P-C1V2/T
M8 Connector	NPN Light On & Dark On	PPQ31-R4N-C1P4	PPQ31-R07N-C1P4/T
	PNP Light On & Dark On	PPQ31-R4P-C1P4	PPQ31-R07P-C1P4/T

