

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℃ - +55℃	-25℃ - +55℃
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
	PNP Light On & Dark On	PPQ31-R4P-C1V2
M8 Connector	NPN Light On & Dark On	PPQ31-R4N-C1P4
	PNP Light On & Dark On	PPQ31-R4P-C1P4
		PPQ31-R07N-C1V2/T
		PPQ31-R07P-C1V2/T
		PPQ31-R07N-C1P4/T
		PPQ31-R07P-C1P4/T

