

Q31 SERIES PHOTOELECTRIC SENSOR (10-30VDC)

Series	Q31	Q31	
Sensing Mode	Through-beam	Through-beam	
Sensing Schematic			
Sensing Range	5M	10M	
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	
Weight	approx.45 g	approx.45 g	
Housing Material	ABS	ABS	
2m PVC Cable (3.0φ 4x0.15)	Emitter	PPQ31-T5E-H1V2	PPQ31-T10ME-H1V2
	NPN Light On & Dark On	PPQ31-T5N-C1V2	PPQ31-T10MN-C1V2
	PNP Light On & Dark On	PPQ31-T5P-C1V2	PPQ31-T10MP-C1V2
M8 Connector	Emitter	PPQ31-T5E-H1P4	PPQ31-T10ME-H1P4
	NPN Light On & Dark On	PPQ31-T5N-C1P4	PPQ31-T10MN-C1P4
	PNP Light On & Dark On	PPQ31-T5P-C1P4	PPQ31-T10MP-C1P4

