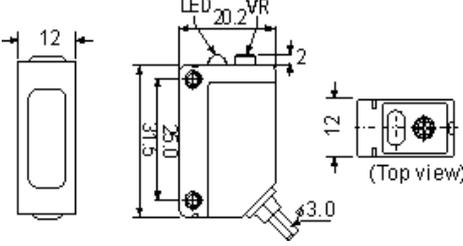
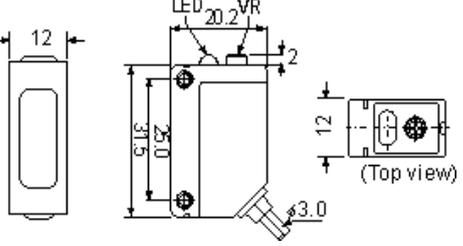


DC PHOTOELECTRIC SENSOR (FP31)

Type	FP31	FP31			
Sensing Mode	Diffuse mode	Diffuse mode			
Sensing Picture					
Switching Distance (Sn)	110mm	350mm			
Picture					
Nominal Voltage	10-30VDC	10-30VDC			
Residual Ripple	<10%	<10%			
Tolerance	±10%Sn	±10%Sn			
Hysteresis	10%	10%			
Emission	Infrared(880nm)	Infrared(880nm)			
Output	NPN N.O+N.C. or PNP N.O+N.C.	NPN N.O+N.C. or PNP N.O+N.C.			
Max. Output Current	100mA	100mA			
Absorption at 30VDC	<35mA	<35mA			
Voltage Drop(Sensor On)	<2.0V (I=100mA)	<2.0V (I=100mA)			
Yellow LED	Output indicator	Output indicator			
Green LED	Supply indicator	Supply indicator			
Sensitivity Adjustment	Trimmer 1 turn	Trimmer 1 turn			
SWitching Frequency	500Hz	500Hz			
Response Time	1mS	1mS			
Start up Delay	<300ms	<300ms			
Short Circuit Protection	Yes	Yes			
Reverse Polarity Pretction	Yes	Yes			
Temperature Limits	-25 ~ +55℃	-25 ~ +55℃			
Light Immunity	>5.000Lux	>5.000Lux			
Protection Degree	IP67	IP67			
Housing Material	ABS	ABS			
Sensing object	10x10cm White Paper	10x10cm White Paper			
Part Number	Emitter				
	Receiver(PNP N. O.&N.C.)				
	Receiver(NPN N. O.&N.C.)				
	PNP N. O.&N.C	F1PD-Q310110PS-I4A2	A1	F1PD-Q310350PS-I4A2	A1
	NPN N. O.&N.C.	F1PD-Q310110NS-I4A2	A2	F1PD-Q310350NS-I4A2	A2
Wiring Diagram					
Dimensions (unit: mm)					
Terminal Version	2M Cable (4x0.15mm ²)	2M Cable (4x0.15mm ²)			
Weight	Approx. 42g	Approx. 42g			

Subject to modifications without notice

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Sensing the future