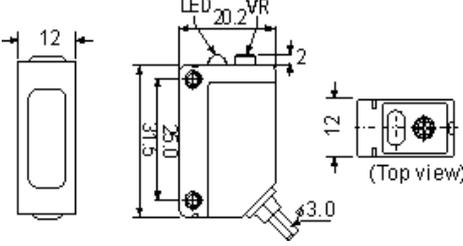
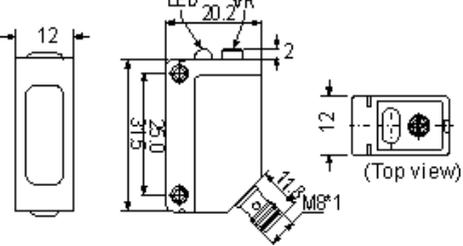


# DC PHOTOELECTRIC SENSOR (FP31)

Type	FP31		FP31		
Sensing Mode	Retro-reflective modde		Retro-reflective modde		
Sensing Picture					
Switching Distance (Sn)	0.1~4M		0.1~4M		
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 tum		Trimmer 1 tum		
SWitching Frequency	500Hz		500Hz		
Response Time	1mS		1mS		
Start up Delay	<300ms		<300ms		
Short Circuit Protection	Yes		Yes		
Reverse Polarity Pretcetion	Yes		Yes		
Temperature Limits	-25 ~ +55℃		-25 ~ +55℃		
Light Immunity	>5.000Lux		>5.000Lux		
Protection Degree	IP67		IP67		
Housing Material	ABS		ABS		
Sensing object	D51 Reflector		D51 Reflector		
Sensing object					
Part Number	Emitter				
	Receiver(PNP N. O.&N.C.)				
	Receiver(NPN N. O.&N.C.)	F1PL-Q314000PS-I4A2	B1	F1PL-Q314000PS-IPA4	B4
	PNP N. O.&N.C	F1PL-Q314000NS-I4A2	B1	F1PL-Q314000NS-IPA4	B4
	NPN N. O.&N.C.				
Wiring Diagram					
Dimensions (unit: mm)					
Terminal Version	2M Cable (4x0.15mm2)		M8 Pico style		
Weight	Approx. 42g		Approx. 35g		

Subject to modifications without notice

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**Mountiger**  
Sensing the future