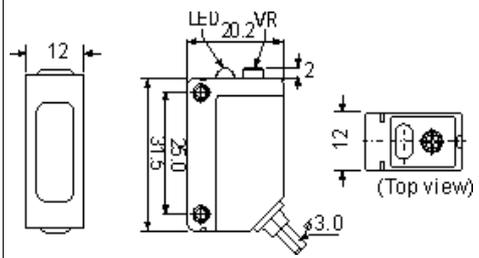
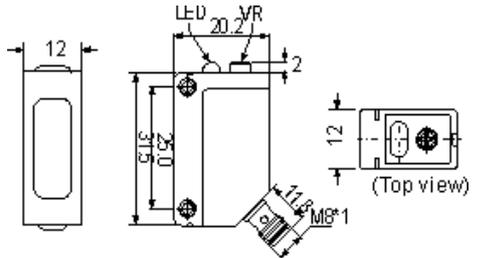


# DC PHOTOELECTRIC SENSOR (FP31)

Type	FP31	FP31	
Sensing Mode	Retro-reflective modde	Retro-reflective modde	
Sensing Picture	 For transparent	 For transparent	
Switching Distance (Sn)	0.1~0.7M	0.1~0.7M	
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	D51 Reflector	D51 Reflector	
Sensing object			
Part Number	Emitter		
	Receiver(PNP N. O.&N.C.)		
	Receiver(NPN N. O.&N.C.)	F1PL-Q310700PS-I4A2	B1
	PNP N. O.&N.C	F1PL-Q310700NS-I4A2	B1
	NPN N. O.&N.C.		
Wiring Diagram			
Dimensions (unit: mm)			
Terminal Version	2M Cable (4x0.15mm <sup>2</sup> )	M8 Pico style	
Weight	Approx. 42g	Approx. 35g	

Subject to modifications without notice

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