





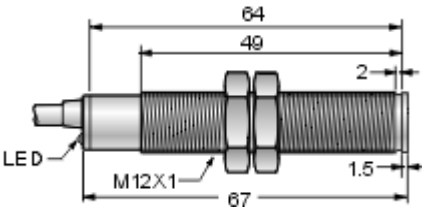
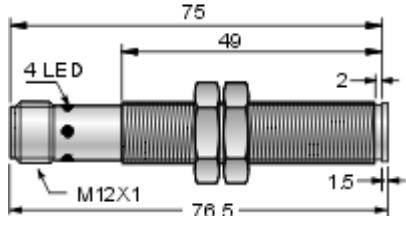


## DC PHOTOELECTRIC SENSOR (FM12)

Type	FM12			FM12		
Sensing Mode	Diffuse mode			Diffuse mode		
Sensing Picture						
Switching Distance (Sn)	200mm			200mm		
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 or PNP			NPN or PNP		
Contact	Light ON or Dark ON			Light ON or Dark ON		
Max. Output Current	150mA			150mA		
No Load Current	30mA or less			30mA or less		
Voltage Drop(Sensor On)	<2.5V			<2.5V		
Sensitivity Adjustment	-			-		
Response Time	1mS			1mS		
Short Circuit Protection	Yes			Yes		
Electric Protections	Yes			Yes		
Temperature Limits	-25 ~ +55℃			-25 ~ +55℃		
Ambient Humidity	35 to 85% RH			35 to 85% RH		
Light Immunity	>10.000Lux			>10.000Lux		
Protection Degree	IP67			IP67		
Housing Material	PBT Plastic or Nickel Plated Brass			PBT Plastic or Nickel Plated Brass		
Sensing object	10x10cm white paper			10x10cm white paper		
Brass Housing						
	NPN N. O.+N. C.	F1BD-M120200NS-I4A2	A14	F1BD-M120200NS-IEA4	A17	
	PNP N. O.+N. C.	F1BD-M120200PS-I4A2	A15	F1BD-M120200PS-IEA4	A17	
Plastic Housing						
	NPN N. O.+N. C.	F1PD-M120200NS-I4A2	A14	F1PD-M120200NS-IEA4	A17	
	PNP N. O.+N. C.	F1PD-M120200PS-I4A2	A15	F1PD-M120200PS-IEA4	A17	
Wiring Diagram						
Dimensions (unit: mm)						
Terminal Version	2M PVC (3x0.15mm2)			M8 Pico-style		
Weight	Approx. 67g			Approx. 40g		

Subject to modifications without notice

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Sensing the future