





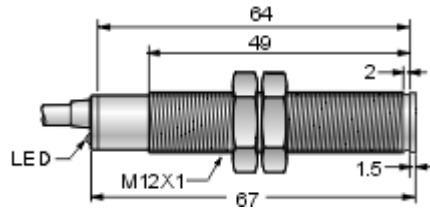
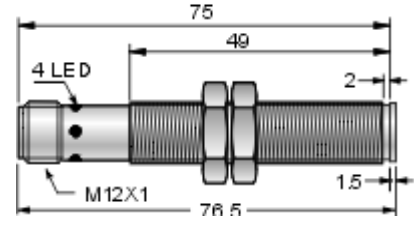


# DC PHOTOELECTRIC SENSOR (FM12)

Type	FM12		FM12	
Sensing Mode	Retro-reflective mode		Retro-reflective mode	
Sensing Picture				
Switching Distance (Sn)	1.5M		1.5M	
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	D51 Reflector		D51 Reflector	
Brass Housing				
	NPN N. O.+N. C.	F1BL-M121500NS-I4A2	A14	F1BL-M121500NS-IEA4
	PNP N. O.+N. C.	F1BL-M121500PS-I4A2	A15	F1BL-M121500PS-IEA4
Plastic Housing				
	NPN N. O.+N. C.	F1PL-M121500NS-I4A2	A14	F1PL-M121500NS-IEA4
	PNP N. O.+N. C.	F1PL-M121500PS-I4A2	A15	F1PL-M121500PS-IEA4
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