

# DC PHOTOELECTRIC SENSOR (FM12)

Type	FM12		FM12		
Sensing Mode	Through-beam mode		Through-beam mode		
Sensing Picture					
Switching Distance (Sn)	5.2M		10M		
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	φ8mm or more		φ8mm or more		
Brass Housing	Emitter	F1BT-M125200DE-IPB4	A12	F1BT-M12010MDE-IPB4	A12
	NPN N. O.	F1BT-M125200NL-IPA4	A9	F1BT-M12010MNL-IPA4	A9
	NPN N. C.	F1BT-M125200ND-IPA4	A9	F1BT-M12010MND-IPA4	A9
	PNP N. O.	F1BT-M125200PL-IPA4	A9	F1BT-M12010MPL-IPA4	A9
	PNP N. C.	F1BT-M125200PD-IPA4	A9	F1BT-M12010MPD-IPA4	A9
Plastic Housing	Emitter	F1PT-M125200DE-IPB4	A9	F1PT-M12010MDE-IPB4	A9
	NPN N. O.	F1PT-M125200NL-IPA4	A9	F1PT-M12010MNL-IPA4	A9
	NPN N. C.	F1PT-M125200ND-IPA4	A9	F1PT-M12010MND-IPA4	A9
	PNP N. O.	F1PT-M125200PL-IPA4	A9	F1PT-M12010MPL-IPA4	A9
	PNP N. C.	F1PT-M125200PD-IPA4	A9	F1PT-M12010MPD-IPA4	A9
Wiring Diagram					
Dimensions (unit: mm)					
Terminal Version	M8 Pico-style		M8 Pico-style		
Weight	Approx. 40g		Approx. 40g		

Subject to modifications without notice

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