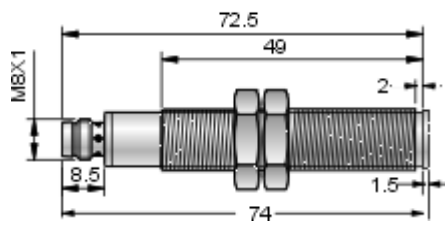
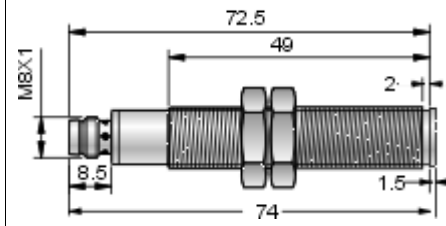


DC PHOTOELECTRIC SENSOR (FM12)

Type		FM12		FM12	
Sensing Mode		Diffuse mode		Retro-reflective mode	
Sensing Picture					
Switching Distance (Sn)		200mm		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		10x10cm white paper		D51 Reflector	
Brass Housing					
	NPN N. O.+N. C.	F1BD-M120200NS-IPA4	A16	F1BL-M121500NS-IPA4	A16
	PNP N. O.+N. C	F1BD-M120200PS-IPA4	A16	F1BL-M121500PS-IPA4	A16
Plastic Housing					
	NPN N. O.+N. C.	F1PD-M120200NS-IPA4	A16	F1PL-M121500NS-IPA4	A16
	PNP N. O.+N. C	F1PD-M120200PS-IPA4	A16	F1PL-M121500PS-IPA4	A16
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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