

Microphotonic Photomicrosensors_____

■ DIFFUSE OR REGULAR REFLECTIVE

Sensing distance	Sensing method	Appearance	Model	Weight	Output	Optical modulation	Features	Page
4.5 mm	Diffuse or regular reflective		EE-SY190	0.95 g (approx)	Phototransistor output	Non-modulated	Highly focused detection range makes this sensor useful for sensing paper without picking up background surfaces.	26
4.5 mm	Diffuse or regular reflective		EE-SY191	0.88 g (approx)			Horizontal sensing	28
6.5 mm	Diffuse reflective type		Z4D-A01	3.7 g	Analog voltage output - 2 signals (Used as input to microprocessor, which outputs a single digital voltage)		Used to detect changes as small as 10 µm. Used for applications such as money changers and copiers.	30
6.5 mm	Reflective		Z4D-B01	3.4 g	Analog output		Resolution down to 5 µm.	18
9.5 mm	Reflective		Z4D-B02	3.4 g	ON/OFF output		Resolution down to 5 µm.	22

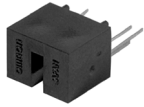
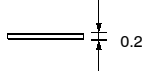
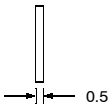
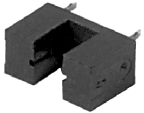
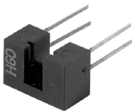
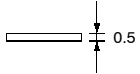
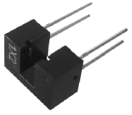
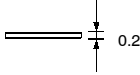
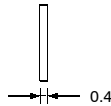
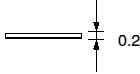
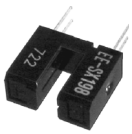
Non-amplified Photomicrosensors



Slot width	Appearance	Model	Weight	Output	Aperture width (mm) and orientation	Terminals	Page
1.0 mm		EE-SX1107	0.05 g	Phototransistor		Surface Mount	36
2.0 mm		EE-SX1018	0.2 g (approx)			PCB	40
		EE-SX1103	0.15 g				42
		EE-SX1105	0.06 g				44
		EE-SX1108	0.1 g			Surface Mount	46
		EE-SX1131	0.1 g				50
		EE-SX1139	0.1 g			PCB	54
		EE-SX4134	0.1 g			Surface Mount	56
		EE-SX4139	0.1 g			PCB	60

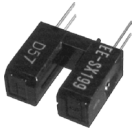
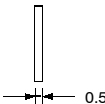
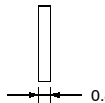
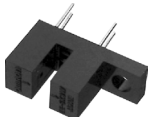
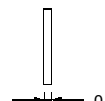
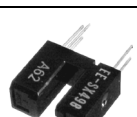
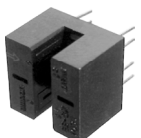
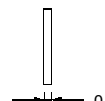
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Transmissive Photomicrosensors - continued from previous page

Slot width	Appearance	Model	Weight	Output	Aperture width (mm) and orientation	Terminals	Page
2.0 mm		EE-SX493	0.7 g (approx)	Photo IC (Light-ON)		PCB	62
2.1 mm		EE-SX1023-W1	3.4 g	Phototransistor		Wire Harness	64
2.8 mm		EE-SX1025	0.2 g (approx)			PCB	66
		EE-SX1055	0.2 g (approx)				68
3.0 mm		EE-SX1046	0.3 g				70
		EE-SX1082	0.3 g				72
		EE-SX1106	0.18 g				74
		EE-SX1109	0.1 g			Surface Mount	76
		EE-SX129	0.7 g			PCB	80
		EE-SX198	0.6 g (approx)				82

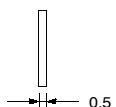
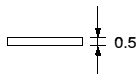
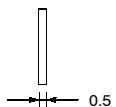
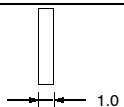
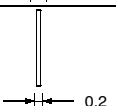
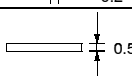
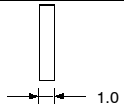
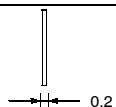
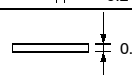
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Transmissive Photomicrosensors - continued from previous page

Slot width	Appearance	Model	Weight	Output	Aperture width (mm) and orientation	Terminals	Page
3.0 mm		EE-SX199	0.6 g (approx)	Phototransistor		PCB	84
		EE-SX298	0.6 g (approx)	Photodarlington transistor			86
		EE-SJ3W-B	0.6 g (approx)	Photodarlington transistor			88
		EE-SK3W-B	0.7 g (approx)				90
		EE-SM3	1.4 g (approx)				92
		EE-SM3B	0.8 g (approx)				94
		EE-SX398	0.6 g (approx)	Photo IC (Dark-ON)			96
		EE-SX498	0.6 g (approx)	Photo IC (Light-ON)			96
3.4 mm		EE-SX1031	1.2 g	Phototransistor (dual channel)			98
		EE-SX1071	0.6 g (approx)	Phototransistor			100

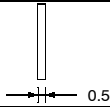
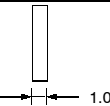
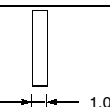
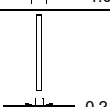
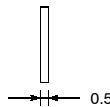
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Transmissive Photomicrosensors - continued from previous page

Slot width	Appearance	Model	Weight	Output	Aperture width (mm) and orientation	Terminals	Page
3.4 mm		EE-SX1088	0.6 g (approx)	Phototransistor		PCB	102
		EE-SX1096	0.6 g (approx)				104
		EE-SX138	0.7 g				106
		EE-SX153	0.8 g				108
		EE-SH3	0.8 g (approx)			Soldering	110
		EE-SH3-B				PCB	
		EE-SH3-CS				Soldering	
		EE-SH3-C				PCB	
		EE-SH3-DS				Soldering	
		EE-SH3-D				PCB	
		EE-SH3-GS				Soldering	
		EE-SH3-G				PCB	
		EE-SJ3-C	0.6 g (approx)			PCB	112
		EE-SJ3-D					
		EE-SJ3-G					

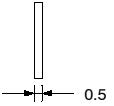
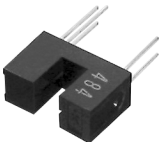
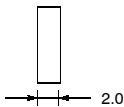
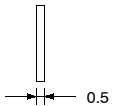
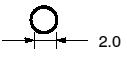
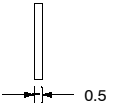
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Transmissive Photomicrosensors - continued from previous page

Slot width	Appearance	Model	Weight	Output	Aperture width (mm) and orientation	Terminals	Page
3.4 mm		EE-SV3	0.7 g (approx)	Phototransistor		Soldering	114
		EE-SV3-B	0.7 g (approx)	Phototransistor		PCB	
		EE-SV3-CS	0.7 g (approx)	Phototransistor		Soldering	
		EE-SV3-C	0.7 g (approx)	Phototransistor		PCB	
		EE-SV3-DS	0.7 g (approx)	Phototransistor		Soldering	
		EE-SV3-D				PCB	
		EE-SV3-GS				Soldering	
		EE-SV3-G				PCB	
		EE-SX2088	0.6 g (approx)	Photodarlington transistor		PCB	116
		EE-SX301	0.8 g (approx)	Photo IC (Dark-ON)			118
		EE-SX401	0.8 g (approx)	Photo IC (Light-ON)			118
		EE-SX305	1.0 g (approx)	Photo IC (Dark-ON)			120
		EE-SX405	1.0 g (approx)	Photo IC (Light-ON)			120
		EE-SX3088	0.6 g (approx)	Photo IC (Dark-ON)			122
		EE-SX4088	0.6 g (approx)	Photo IC (Light-ON)			122

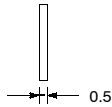
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Transmissive Photomicrosensors - continued from previous page

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3.5 mm		EE-SX384	0.8 g (approx)	Photo IC (Dark-ON)		PCB	124
		EE-SX484	0.8 g (approx)	Photo IC (Light-ON)			124
3.6 mm		EE-SG3	1.1 g	Phototransistor		Soldering	126
		EE-SG3-B	1.1 g			PCB	126
		EE-SX1057	0.7 g				128
4.2 mm		EE-SX1128	0.5 g				130
4.6 mm		EE-SX1061	0.7 g				132
5.0 mm		EE-SJ5B	0.7 g				134
		EE-SX1041	0.6 g (approx)				136
		EE-SX1042	0.8 g (approx)				138
		EE-SX1080					140

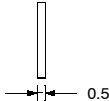
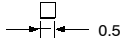
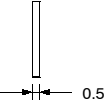
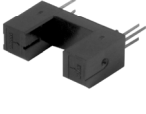
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Transmissive Photomicrosensors - continued from previous page

Slot width	Appearance	Model	Weight	Output	Aperture width (mm) and orientation	Terminals	Page
5.0 mm		EE-SX1081	0.5 g (approx)	Phototransistor		PCB	142
		EE-SX1115	0.7 g				144
		EE-SX1137	0.6 g				146
		EE-SX1235A-P2	1.3 g (approx)			Connector	148
		EE-SX3080	0.7 g	Photo IC (Dark-ON)		PCB	150
		EE-SX3081	0.5 g (approx)				152
		EE-SX3239-P2	1.2 g	Photo IC (Light-ON)		Connector	154
		EE-SX460-P1	3.0 g (approx)				156
		EE-SX4009-P1	3.1 g (approx)				158
		EE-SX4009-P10	3.5 g (approx)				160

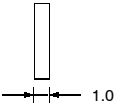
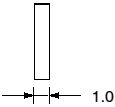
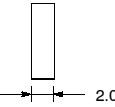
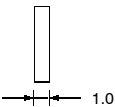
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Transmissive Photomicrosensors - continued from previous page

Slot width	Appearance	Model	Weight	Output	Aperture width (mm) and orientation	Terminals	Page		
5.0 mm		EE-SX4019-P2	2.7 g	Photo IC (Light-ON)		Connector	162		
		EE-SX4080	0.9 g	Photo IC (Dark-ON)		PCB	150		
		EE-SX4081	0.5 g (approx)	Photo IC (Light-ON)		Connector	152		
		EE-SX4235A-P2	1.3 g				164		
		EE-SX4239-P2	1.2 g				154		
5.2 mm		EE-SX1035	1.3 g (approx)	Phototransistor		PCB	166		
8.0 mm		EE-SX1070	0.8 g (approx)						168
		EE-SX3070	0.6 g (approx)	Photo IC (Dark-ON)	170				
		EE-SX4070	0.6 g (approx)	Photo IC (Light-ON)	170				

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Transmissive Photomicrosensors - continued from previous page

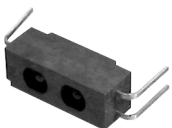
Slot width	Appearance	Model	Weight	Output	Aperture width (mm) and orientation	Terminals	Page
12.0 mm		EE-SPX415-P2	5.8 g	Photo IC (Light-ON)		Connector	172
14.0 mm		EE-SX1140	0.7 g	Phototransistor		PCB	174
15.0 mm		EE-SX461-P11	3.8 g (approx)	Photo IC (Light-ON)		Connector	176
17.0 mm		EE-SPX414-P1	2.9 g				178



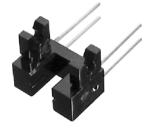
Sensing distance	Appearance	Model	Weight	Output	Terminals	Page
1.0 mm		EE-SY124	0.4 g	Phototransistor	PCB	182
		EE-SY125	0.4 g		Surface Mount	184
		EE-SY193	0.4 g			186
3.5 mm		EE-SY171	0.3 g		PCB	190
4.0 mm		EE-SY169	1.0 g			192
		EE-SY169A	1.0 g			194
		EE-SY169B	1.0 g			196
		EE-SY201	0.2	Photodarlington transistor		198
4.4 mm		EE-SY113	0.5 g	Phototransistor		200
		EE-SY313	0.5 g	Photo IC (Dark-ON)		202
		EE-SY413	0.5 g	Photo IC (Light-ON)		202

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Reflective Photomicrosensors - continued from previous page

Sensing distance	Appearance	Model	Weight	Output	Terminals	Page
5.0 mm		EE-SB5	1.0 g	Phototransistor	Soldering	204
		EE-SB5-B	1.0 g		PCB	204
		EE-SF5	0.6 g		Soldering	206
		EE-SF5-B	0.6 g		PCB	206
		EE-SY110	0.4 g			208
		EE-SY310	0.4 g	Photo IC (Dark-ON)		210
		EE-SY410	0.4 g	Photo IC (Light-ON)		210
11.0 mm		EE-SPY415	3.3 g			212

■ ACTUATOR

Appearance	Model	Weight	Output	Terminals	Page
	EE-SA102	0.7 g (approx)	Phototransistor	PCB	216
	EE-SA103	0.3 g (approx)			218
	EE-SA104	0.3 g (approx)			220
	EE-SA105	0.4 g (approx)			222
	EE-SA113	0.5 g			224
	EE-SA401-P2	3.1 g (approx)	Photo IC (Light-ON)	Connector	226
	EE-SA407-P2	3.3 g (approx)			228
	EE-SA107-P2	1.7 g (approx)	Phototransistor		230