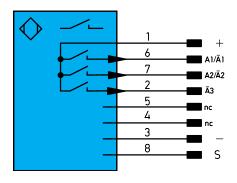
OPT Series Color Sensors



Features

- Capable of evaluating up to 3 colors simultaneously
- Single lens optics allows this sensor to have a small spot diameter and large working range
- Reflex mode operation
- 3 switching outputs
- IP68

Wiring Diagram



Legend			
+	Supply Voltage +		
-	Supply Voltage 0V		
A1/Ā1	Switching output 1 (N.O./N.C.)		
A2/Ā2	Switching output 2 (N.O./N.C.)		
Ā3	Input (analog or digital)/switching output (N.C.)		
S	Shielding		

Connectors 8-Pin M12 connector

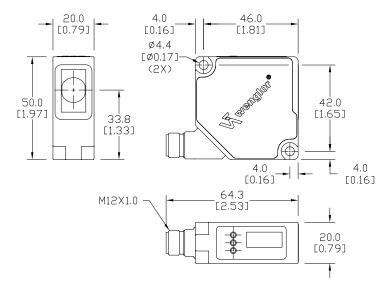


OPT2023 Specifications				
Part Number	OPT2023			
Price	\$:01nvt:			
Working Range	30 to 40mm			
Working Distance	35mm			
Light Source	White light			
Service Life (T = +25°C)	100,000h			
Max. Ambient Light	10,000 Lux			
Spot Diameter	3mm			
Operating Voltage	10 to 30VDC			
No Load Supply Current	< 80mA			
Switching Frequency	1.8 kHz			
Response Time	~ (1000/1.8) µs x filter			
Temperature Range	-25 to 60°C [-13 to 140°F]			
Switching Outputs	3 NPN/PNP			
Switching Output Voltage Drop	1.5 V			
Operating (load) Current	100mA			
Short Circuit Protection	yes			
Reverse Polarity Protection	yes			
Overload Protection	yes			
Digital Inputs	2			
Protection Class	III			
Setting Method	Teach-In			
Housing Material	Plastic			
Degree of Protection	IP68			
Connection	8-pin M12			
Operating Mode	Selectable light-on/dark-on			
Approvals	CE, RoHs, cULus,			

Note: To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.

Dimensions

mm [inches]



See our website: www.AutomationDirect.com for complete Engineering drawings.

Accessories for OPT Series 50x50mm Photoelectric Sensors

Right-angle Brackets

Mounting bracket, right-angle, nickel-plated steel or 304 stainless steel. For use with OPT series 50x50mm photoelectric sensors.

Accessories for OPT Series 50x50mm Photoelectric Sensors						
Part Number	Price	Description	Drawing Link	Weight [lb]		
<u>OPT2031</u>	\$7??:	Wenglor mounting bracket, right-angle, nickel-plated brass. For use with OPT series 50x50mm photoelectric sensors.	<u>PDF</u>	0.24		
<u>OPT2038</u>	\$-1nln:	Wenglor mounting bracket, right-angle, vertical and horizontal adjustment, 304 stainless steel. For use with OPT series 50x50mm photoelectric sensors.	<u>PDF</u>	0.19		





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Accessories for OPT Series 50x50mm Photoelectric Sensors

Right-angle Swivel Mounting Systems

Mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, 12mm rod mount. For use with OPT series 50x50mm photoelectric sensors. Available in all stainless steel or with an aluminum head with a stainless steel mounting plate.

Accessories for OPT Series 50x50mm Photoelectric Sensors							
Part Number	Price	Description	Mounting Head	Mounting Plate	Drawing Link	Weight [lb]	
<u>OPT2122</u>	\$1nn2:	Wenglor mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, aluminum, 12mm rod mount. For use with OPT series 50x50mm photoelectric sensors.	Aluminum	304 Stainless Steel	<u>PDF</u>	0.19	
<u>OPT2123</u>	\$1nn3:	Wenglor mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, 304 stainless steel, 12mm rod mount. For use with OPT series 50x50mm photoelectric sensors.	304 Stainless Steel	304 Stainless Steel	<u>PDF</u>	0.31	



NOTE:

304 Stainless steel mounting rods sold separately: OPT2109 (200mm length), OPT2110 (300mm length), and OPT2111 [500mm length].

OPT2122, OPT2123

Mounting Rods and Brackets

Mounting Rods

304 Stainless steel rods for mounting swivel brackets <u>OPT2112</u> - <u>OPT2127</u> Available in three lengths: 200mm, 300mm, and 500mm. 12mm diameter.

Mounting Rods for OPT2112-2127 Swivel Mounting Brackets						
Part Number	Price	Description	Drawing Link	Weight lb (g)		
<u>OPT2109</u>	\$1nn9:	Wenglor mounting rod, 12mm diameter, 200mm length, 304 stainless steel.	PDF	0.41 [185.97]		
<u>OPT2110</u>	\$1nna:	Wenglor mounting rod, 12mm diameter, 300mm length, 304 stainless steel.	PDF	0.60 [272.16]		
<u>OPT2111</u>	\$1nnb:	Wenglor mounting rod, 12mm diameter, 500mm length, 304 stainless steel.	PDF	0.98 [444.52]		



Right-angle Mounting Bracket

Mounting bracket, right-angle, nickel-plated brass. For use with 12mm mounting rods OPT2109, OPT2110 & OPT2111.

Right-angle Mounting Brackets for 12mm Sensors					
Part Number	Number Price Description Drawing Link		Weight Ib [g]		
<u>OPT2108</u>	\$-1nly:	Wenglor mounting bracket, right-angle, nickel-plated brass. For use with 12mm mounting rods OPT2109, OPT2110 & OPT2111.	<u>PDF</u>	0.07 [31.8]	



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