

OPT Series Color Sensors



- 12 switching outputs for evaluation of detailed color analysis thanks to spectral measurement in ROYGBV color space
- Integrated LED technology ensures ideal adjustment of light intensity
- Reliable evaluation of measured values even with distance fluctuation
- Sensor settings selectable at graphical display
- Can be operated in the scanning as well as the through-beam mode
- IP67

OPT2022 Specifications	
Part Number	OPT2022
Price	Retired
Spectral sensitivity	450 to 700nm
Light source	White light
Service Life (T = +25°C)	50,000h
Max. ambient light	10,000 Lux
Operating voltage	10 to 30VDC
Supply voltage with IO-link	18 to 30VDC
No-load supply current	~ 260mA
Switching frequency	2kHz
Response time	~ 50µs x filter
On/Off delay	0 to 10,000 ms
Temperature range	-25 to 60°C [-13 to 140°F]
Switching outputs	12 NPN/PNP
Switching output voltage drop	1.5 V
Operating (load) current	100mA
Short circuit protection	yes
Reverse polarity protection	yes
Digital inputs	3
Protection class	III
Setting method	Teach-In
Housing material	Plastic
Degree of protection	IP67
Connection	4-pin M12 and (2) 8-pin M12
DIN-Rail mounting	35mm
Selectable menu language	yes
Operating mode	Selectable Light-on/Dark-on
Approvals	CE, RoHs, cULus,

Note: To obtain the most current agency approval information– see the Agency Approval Checklist section on the specific part number's web page.

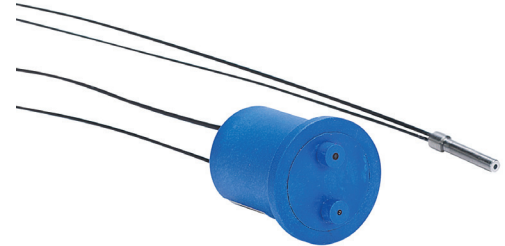
OPT Series Color Sensors Cable

Plastic Fiber Optic Cable

OPT2075 Diffuse Reflex Mode

- Compatible with the [OPT2022](#) 6-channel sensor
- Designed for installation in tight spaces
- IP68

OPT2075 Specifications	
Part Number	OPT2075
Price	Retired
Drawing Link	PDF
Optical Fiber Core Ø	0.5 mm
Sensing Distance with OPT series	10mm
Fiber Length (L)	1m
Fiber Bending Radius	15mm
Spot Diameter	0.5 to 2 mm
Temperature Range	-40 to 85°C [-40 to 185°F]
Fiber Materials	PMMA
Sleeve Materials	PE (black)
Head Materials	Stainless steel
Jacket Diameter	1.3 mm
Fiber Distribution	Coaxial arrangement
Opening Angle	55°
Light Emission	Straight



OPT Series Color Sensors Cable

Glass Fiber Optic Cable

OPT2087 Through-Beam Mode

OPT2087 Specifications	
Part Number	OPT2087
Price	Retired
Drawing Link	PDF
Optical Fiber Core Ø	3mm
Sensing Distance with OPT series	600mm
Fiber Length (L)	1m
Fiber Bending Radius	50mm
Free Cut	No
Head Size	M18
Temperature Range	0 to 60°C [32 to 140°F]
Fiber Materials	Glass
Sleeve Materials	Brass (CuZn) nickel-plated
Head Materials	Anodized aluminum
Fiber Diameter	3mm
Fiber Distribution	Statistical mixture
Opening Angle	30°



OPT Series Color Sensors Cable

Glass Fiber Optic Cable

OPT2088 Diffuse (Reflex) Mode

OPT2088 Specifications	
Part Number	OPT2088
Price	Retired
Drawing Link	PDF
Optical Fiber Core Ø	3mm
Sensing Distance with OPT series	100mm
Fiber Length (L)	1m
Fiber Bending Radius	50mm
Free Cut	No
Head Size	M30
Temperature Range	0 to 60°C [32 to 140°F]
Fiber Materials	Glass
Sleeve Materials	Brass (CuZn) nickel-plated
Head Materials	Anodized aluminum
Fiber Diameter	3mm
Fiber Distribution	Statistical mixture



OPT2089 Diffuse (Reflex) Mode

OPT2089 Specifications	
Part Number	OPT2089
Price	Retired
Drawing Link	PDF
Optical Fiber Core Ø	1.6 mm
Sensing Distance with OPT series	18mm
Fiber Length (L)	1m
Fiber Bending Radius	50mm
Free Cut	No
Head Size	M18
Temperature Range	0 to 60°C [32 to 140°F]
Fiber Materials	Glass
Sleeve Materials	Brass (CuZn) nickel-plated
Head Materials	Anodized aluminum
Fiber Diameter	1.6 mm
Fiber Distribution	Statistical mixture

