OFP401P0189

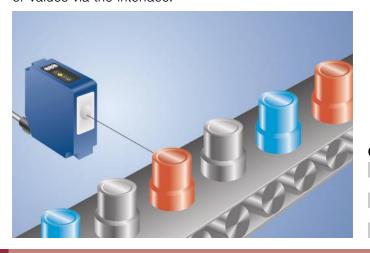
True Color Sensor

Part Number



- Extremely fine color nuances can be recognized
- Reflex mode operation
- Teach-in, external teach-in

This color sensor is capable of evaluating up to three colors simultaneously. A small spot and a large working range are made possible thanks to single-lens optics. All sensor settings can be selected by means of teach-in, as well as via the RS-232 interface. Values generated by the sensor can be read out via the interface or digital switching outputs. The sensor has 3 switching outputs and supplies RGB, XYZ and HSL color values via the interface.



Technical Data

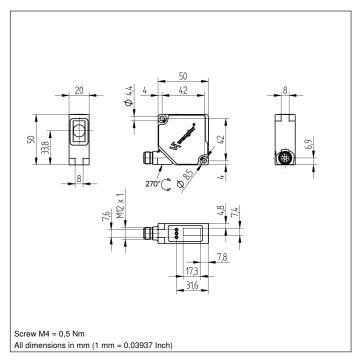
Optical Data					
Working Range	3040 mm				
Working Distance	35 mm				
Light Source	White Light				
Service Life (T = +25 °C)	100000 h				
Max. Ambient Light	100000 H				
Light Spot Diameter	3 mm				
Electrical Data					
Supply Voltage	1030 V				
Current Consumption (Ub = 24 V)	< 80 mA				
Switching Frequency	1,8 kHz				
Response Time	~(1000 / 1,8)µs × filter				
Temperature Range	-2560 °C				
Number of Switching Outputs	3				
Switching Output Voltage Drop	1,5 V				
PNP Switching Output/Switching Current	100 mA				
Short Circuit Protection	yes				
Reverse Polarity Protection	yes				
Overload Protection	yes				
Teach Mode	FT				
Interface	RS-232				
Number of Digital Inputs	2				
Protection Class	III				
Mechanical Data					
Setting Method	Menu (OLED)				
Housing Material	Plastic				
Degree of Protection	IP68				
Connection	M12 × 1; 8-pin				
Safety-relevant Data					
MTTFd (EN ISO 13849-1)	425,77 a				
Switchable to NC/NO	•				
Configurable as PNP/NPN/Push-Pull					
RS-232 Interface					
Error Output					
Contamination Output					
Connection Diagram No.	193				
Control Panel No.					
Suitable Connection Equipment No.	89				
Suitable Mounting Technology No.	380				

Display brightness may decrease with age. This does not result in any impairment of the sensor function.

Complementary Products

- Compromontary 1 rounds
Fieldbus Gateway ZAGxxxN01, EPGG001
Interface Cable S232W3
Protective Housing ZSV-0x-01
Set Protective Housing ZSP-NN-02
Software





Ctrl. Panel

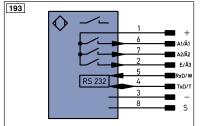


20 = Enter Button

22 = UP Button

23 = Down Button

60 = Display



_egen	ıd		PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)	
+	Supply Voltage +		nc	not connected	ENBR5422	Encoder B/B (TTL)	
-	Supply Voltage 0 V		U	Test Input	ENA	Encoder A	
~	Supply Voltage (AC Voltage)		Ū	Test Input inverted	ENB	Encoder B	
Α	Switching Output	(NO)	W	Trigger Input	Amin	Digital output MIN	
Ā	Switching Output	(NC)	W -	Ground for the Trigger Input	Амах	Digital output MAX	
٧	Contamination/Error Output	(NO)	0	Analog Output	Аок	Digital output OK	
V	Contamination/Error Output	(NC)	0-	Ground for the Analog Output	SY In	Synchronization In	
E	Input (analog or digital)		BZ	Block Discharge	SY OUT	Synchronization OUT	
Т	Teach Input		Awv	Valve Output	OLT	Brightness output	
Z	Time Delay (activation)		а	Valve Control Output +	М	Maintenance	
S	Shielding		b	Valve Control Output 0 V	rsv	reserved	
RxD	Interface Receive Path		SY	Synchronization	Wire Co	Wire Colors according to DIN IEC 757	
TxD	Interface Send Path		SY-	Ground for the Synchronization	BK	Black	
RDY	Ready		E+	Receiver-Line	BN	Brown	
GND	Ground		S+	Emitter-Line	RD	Red	
CL	Clock		±	Grounding		Orange	
E/A	Output/Input programmable		SnR	Switching Distance Reduction	YE	Yellow	
•	IO-Link		Rx+/-	Ethernet Receive Path	GN	Green	
PoE	Power over Ethernet		Tx+/-	Ethernet Send Path	BU	Blue	
IN	Safety Input		Bus	Interfaces-Bus A(+)/B(-)	VT	Violet	
OSSD	Safety Output		La	Emitted Light disengageable	GY	Grey	
Signal	Signal Output		Mag	Magnet activation	WH	White	
BI_D+/-	Ethernet Gigabit bidirect, data	line (A-D)	RES	Input confirmation	PK	Pink	
ENOR5422	Encoder 0-pulse 0-0 (TTL)		EDM	Contactor Monitoring	GNYE	Green/Yellow	







