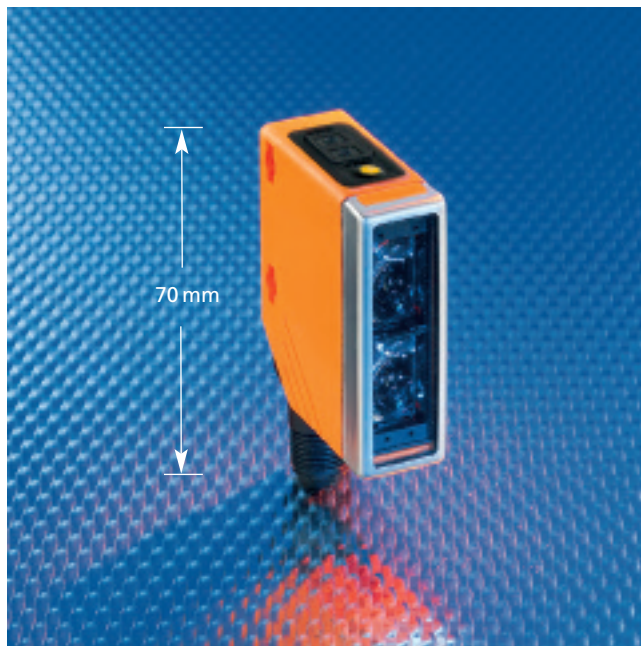




O5 Photoelectric Contrast Sensor

Automatically selects ideal color to differentiate target from background



- 10,000 Hz switching frequency for high-speed applications
- High-color contrast sensitivity and resolution
- 18 to 22mm sensing range
- Ideal for flat objects such as labels
- Auto-detect for PNP/NPN configuration



ifm's new high performance O5 Photoelectric Contrast Sensor offers a variety of contrast sensing solutions for the packaging, assembly, material handling and printing industries.

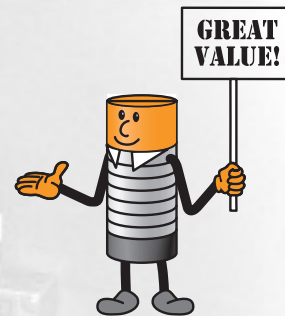
One of the challenges in detecting registration marks or printed color bars is determining the difference between the target and background – especially when the colors are similar.

The O5 sensor features a RGB (Red, Green, Blue) visible light transmission LED that processes through red, green and blue to identify the best light color for contrast between the target and the background such as registration marks on labels, and print markings on boxes. The sensor also offers an inexpensive alternative to more expensive vision and identification systems

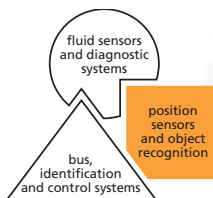
- Variety of mounting brackets for installation flexibility
- Connector rotates 270° for alignment in multiple directions
- Simple "Teach Mode" setup quickly establishes parameters of application
- Compact size fits in applications with limited space

Typical applications:

- Printed registration marks on a roll of paper or labels
- Continuous-forms markings
- Printed color bars on packages
- Reference marks for printing/cutting
- Confirm presence of bar codes, date codes and data matrix symbols




High Performance Contrast Sensor – Only \$175

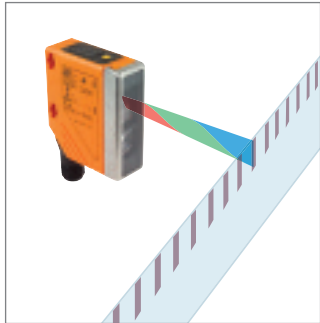




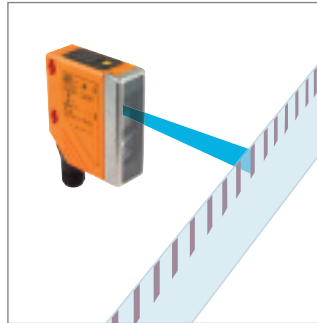
Product Specifications

Function	Range	Output	Spot size at max range	Supply Current	Switching Frequency	Light Source	Part No.	List Price (USD)
Contrast diffuse 	18-22 mm	LO/DO, PNP/NPN	1.5 x 5 mm	50 mA	10,000 Hz	RGB	05K 500	\$175.00

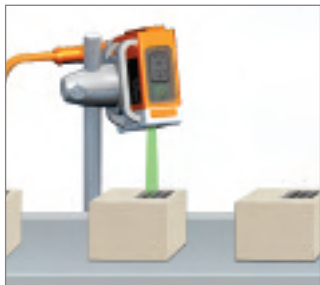
05 Contrast Sensor Provides Application Solutions



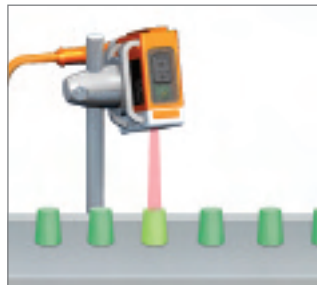
Identifies registration marks in high speed applications
The sensor's visible light processes through red, green and blue to identify the best color for contrast.



Here, the sensor selects blue light for the highest contrast color. The sensor's high switching frequency can handle the application's short mark-to-space ratio.






Presence of bar codes
Often it is necessary to verify the presence of a bar code or data matrix code without reading the information contained on the code. The 05 contrast sensor can identify the presence of a bar code on a box.





Checking cap color
The 05 contrast sensor can detect subtle color differences that are difficult to see with conventional sensors. In this example, caps that are not the correct color are removed from the process.

Cordsets

Type	Description	Part No.	List Price (USD)
	M12 DC (4-pin) 2 m, PUR	EVC 001	\$9.85
	M12 DC (4-pin) 5 m, PUR	EVC 002	\$12.50
	M12 DC (4-pin) 2 m, PUR	EVC 004	\$9.85
	M12 DC (4-pin) 5 m, PUR	EVC 005	\$12.50
	M12 DC (4-pin) 2 m, PUR, LED	EVC 007	\$12.50
	M12 DC (4-pin) 5 m, PUR, LED	EVC 008	\$14.00

Optional Accessories

Type	Description	Part No.	List Price (USD)
	Short swivel bracket for rod with clamp	E 21083	\$8.50
	Freestanding mounting bracket	E 21087	\$11.00

Technical Specs

Type of light:	red light 625 nm green light 525 nm blue light 465 nm
Supply voltage:	10...36 V DC
No. of wires:	3-wire
Max. load current:	200 mA
Voltage drop:	<2.5 V
Leakage current:	Negligible
Connector:	M12
Housing material:	PA, stainless steel, TPE
Lens material:	PMMA
Operating temperature:	-13...+140°F (-25...+60°C)
Protection:	IP 67

Lit. No.: B10309