

Notice of Discontinuation
OFP401P0189
Color Sensor



EN

End-of-Life Notices

Discontinued product: OFP401P0189

Recommended replacement product: P1PF001

Discontinuation date: 02.04.2026

Key Differences



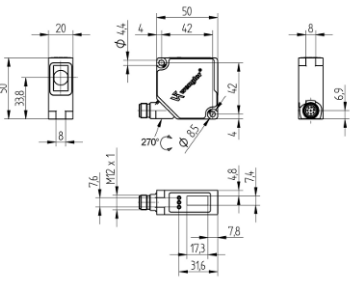
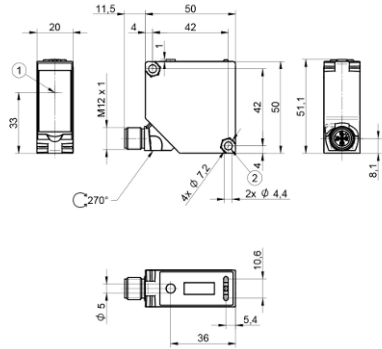
The successor product has a 5-pin M12 plug.
 The successor product has only two switching outputs.
 The successor product has an IO-Link interface.

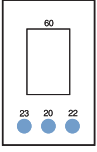
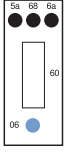
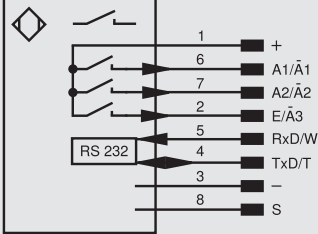
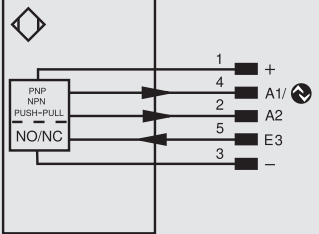
Below you will find a detailed product comparison:

	Discontinued product OFP401P0189	Successor product P1PF001
Visual data		
Working Range	30...40 mm	30...40 mm
Working Distance	35 mm	35 mm
Switching Hysteresis		< 1 %
Light Source	White Light	White Light
Service Life (T = +25 °C)	100000 h	100000 h
Max. Ambient Light	10000 Lux	10000 Lux
Light Spot Diameter	3 mm	3 mm
Electrical data		
Supply Voltage	10...30 V DC	18...30 V DC
Current Consumption (U _b = 24 V)	< 80 mA	< 50 mA
Switching Frequency	1.8 kHz	8 kHz
Response time	~ 1.8/1,000 µs × filter	
Response Time		50 µs
Temperature Drift		< 10 %
Temperature Range	-25...60 °C	-25...60 °C
Number of Switching Outputs	3	2
Switching Output Voltage Drop	1.5 V	1.5 V
PNP Switching Output/Switching Current	100 mA	100 mA
Short Circuit Protection	yes	yes
Reverse Polarity Protection	yes	yes
Overload Protection	yes	yes
Teach Mode	FT	FT
Interface	RS-232	IO-Link V1.1
Protection Class	III	III
Mechanical Data		
Setting Method	Menu (OLED)	Teach-In
Housing Material	Plastic, ABS Plastic, PC	Plastic, ABS
Optic Cover	Plastic, PMMA	Plastic, PMMA

	Discontinued product OFP401P0189	Successor product P1PF001
Degree of Protection	IP68	IP67
Connection	M12 × 1; 8-pin	M12 × 1; 5-pin
Output functions		
Output	Push-pull Error Output Contamination Output	PNP
Circuit	NO	NO
Adjustable parameters		
Output	Error Output Push-pull NPN PNP Contamination Output	Error Output Push-pull NPN PNP
Circuit	NC NC/NO NO	NC NC/NO NO
Other parameters	Teach-in mode	Off-delay On-delay Switching hysteresis
Safety technology data		
MTTFd (EN ISO 13849-1)	425.77 a	719.27 a

Product images/Technical drawings/Connection diagrams/Approvals

	Discontinued product OFP401P0189	Successor product P1PF001
Product image		
Dimensioned image	 <p>Screw M4 = 0.5 Nm</p>	 <p>① Optical axis ② Wrench Size 7</p>

	Discontinued product OFP401P0189	Successor product P1PF001
control panel	<p>X2</p>  <p>20 = Enter key 22 = Up key 23 = Down key 60 = display</p>	<p>X13</p>  <p>06 = Teach Button 5a = Switching Status Indicator, O1 68 = Power LED 6a = Switching Status Indicator, O2 60 = display</p>
connection diagram	<p>193</p> 	<p>317</p> 
Approvals	