

Notice of Discontinuation

HT60MGV80

Reflex Sensor with Background Suppression



EN

Notice of discontinuation

Discontinued product: HT60MGV80

Recommended alternative product: P1PC312
OY1P303P0102

Discontinued on: 31.03.2026

Key differences

Both alternative products are based on laser light (observe laser safety instructions). Alternative product 1 is characterized by reliable and highly precise measurement at close range. Alternative product 2 is based on the principle of time-of-flight measurement, which enables large working ranges and high immunity to ambient light. A contamination output can be parameterized for the alternative products.

Below you will find a detailed product comparison:

	Discontinued product HT60MGV80	Alternative product 1 P1PC312	Alternative product 2 OY1P303P0102
Product group	Reflex Sensor with Background Suppression	Laser Distance Sensor Triangulation	Laser Distance Sensor Time of Flight
Photo of Product			
Optical data			
Working Range	300...600 mm	60...660 mm	50...3050 mm
Measuring Distance	450 mm		
Measuring Range	300 mm	60...660 mm	3000 mm
Reproducibility maximum		1000 µm	1 mm
Reproducibility: 1 Sigma		100 µm	
Linearity Deviation		2400 µm	
Linearity Deviation (200...3050 mm)			7 mm
Linearity Deviation (50...200 mm)			15 mm
Linearity	1 %		
Switching Hysteresis	20 mm	< 1 %	3...20 mm
Light Source	Red Light	Laser (red)	Laser (red)
Wavelength	660 nm	655 nm	660 nm
Laser Class (EN 60825-1)		1	1
Service Life (T = +25 °C)	100000 h	100000 h	100000 h
Max. Ambient Light	10000 Lux	10000 Lux	10000 Lux
Beam Divergence			< 2 mrad
Electrical data			
Supply Voltage	18...30 V DC	18...30 V DC	18...30 V DC

	Discontinued product HT60MGV80	Alternative product 1 P1PC312	Alternative product 2 OY1P303P0102
Current Consumption (U _b = 24 V)	< 50 mA	< 35 mA	< 70 mA
Cut-Off Frequency	50 Hz		
Switching Frequency		650 Hz	250 Hz
Measuring Rate		2500 /s	1...500 /s
Response Time	10 ms	< 0.77 ms	
On-/Off-Delay			0...10000 ms
Temperature Drift	100 µm/K	< 150 µm/K	< 0.4 mm/K
Temperature Range	-10...60 °C	-25...50 °C	-40...50 °C
Number of Switching Outputs		1	2
Switching Output Voltage Drop	< 2.5 V	< 1.5 V	< 2.5 V
Switching Output/Switching Current		100 mA	100 mA
PNP Switching Output/Switching Current	200 mA		
Error Output Voltage Drop	< 2.5 V		
PNP Error Output/Switching Current	200 mA		
Analog Output	0...10 V	0...10 V	4...20 mA
Output Current Analog Output	500 µA		
Short Circuit Protection	yes	yes	yes
Reverse Polarity Protection	yes	yes	yes
Overload Protection	yes	yes	yes
Teach Mode			HT, VT, FT, TP
Interface		IO-Link V1.1	IO-Link V1.1
Baud Rate		COM3	
Protection Class	III	III	III
FDA Accession Number		2512215-000	
Mechanical data			
Setting Method		Teach-In NFC	Menu (OLED)
Housing Material	Plastic, PBT	Plastic, ABS	Plastic, ABS Plastic, PC
Optic Cover		Plastic, PMMA	Plastic, PMMA
Degree of Protection	IP67	IP67 IP68	IP68
Connection	M12 × 1; 8-pin	M12 × 1; 5-pin	M12 × 1; 4-pin
Output functions			
Output	Analog Output Error Output PNP	Analog Output PNP	Analog Output Error Output
Circuit		NO	
Adjustable parameters			
Output		Error Output Push-pull NPN PNP	Analog Output Error Output Push-pull NPN PNP Contamination Output

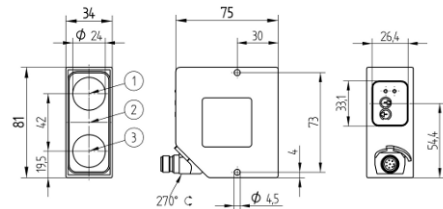
	Discontinued product HT60MGV80	Alternative product 1 P1PC312	Alternative product 2 OY1P303P0102
Circuit		NC NC/NO NO	
Other parameters		Exposure time Laser light Switching hysteresis Teach-in mode Off-delay On-delay	Off-delay Scale analog output On-delay Filter Hysteresis Emitted light Teach mode

Technical drawings/connection diagrams/approvals

connection diagram			
control panel	T5 01 = Switching Status Indicator 13 = Upper Potentiometer 14 = Lower Potentiometer 33 = Analog Voltage Output/Error Warning	X12 5a = Switching Status Indicator, A1 68 = Power LED 7c = Analog Output Indicator, O 60 = display 06 = Teach Button	X2 20 = Enter key 22 = Up key 23 = Down key 60 = display
Approvals			

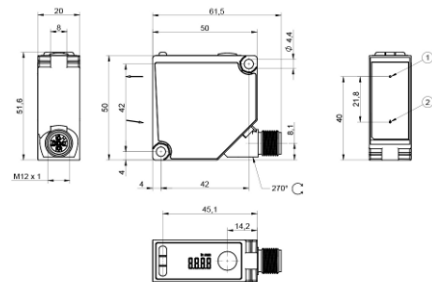
Dimensioned images

HT60MGV80



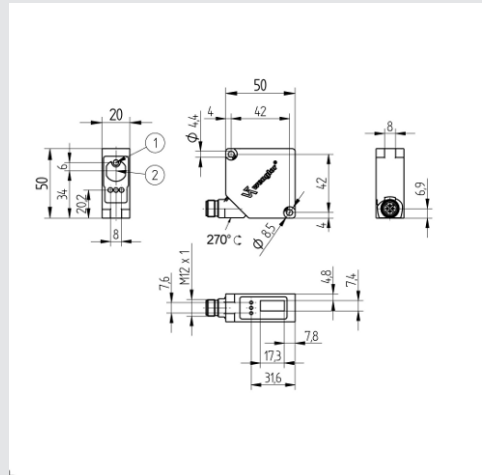
- ① Receiver Diode
 - ② Transmitter Diode
 - ③ Receiver Diode
- Screw M4 = 1 Nm

P1PC312



- ① Transmitter Diode
 - ② Receiver Diode
- Screw M4 = 1 Nm

OY1P303P0102



- ① Transmitter Diode
 - ② Receiver Diode
- Screw M4 = 0.5 Nm

Light spot diameter and resolution

HT60MGV80

Working Distance	300 mm	450 mm	600 mm
Light Spot Diameter	10 mm	15 mm	20 mm
Resolution	0,3 mm	2 mm	5 mm

P1PC312

Working Distance	60 mm	360 mm	660 mm
Spot Size	0,5 x 1,2 mm	1,0 x 3,0 mm	2,0 x 5,5 mm

OY1P303P0102

Working Distance	0 m	3 m
Light Spot Diameter	5 mm	9 mm