

Notice of Discontinuation

HT66MGV80

Reflex Sensor with Background Suppression



EN

Notice of discontinuation

Discontinued product: HT66MGV80




Recommended alternative product: P1PY217
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 HT66MGV80	Alternative product 1 P1PY217	Alternative product 2 OY1P303P0102
Product group	Reflex Sensor with Background Suppression	Laser Distance Sensor Time of Flight	Laser Distance Sensor Time of Flight
Photo of Product			
Optical data			
Working Range	350...850 mm	0...5000 mm	50...3050 mm
Measuring Distance	600 mm		
Measuring Range	500 mm	50...5000 mm	3000 mm
Reproducibility maximum		3 mm*	1 mm
Linearity Deviation		15 mm*	
Linearity Deviation (200...3050 mm)			7 mm
Linearity Deviation (50...200 mm)			15 mm
Linearity	1 %		
Switching Hysteresis	20 mm		3...20 mm
Light Source	Infrared Light	Laser (blue)	Laser (red)
Wavelength	880 nm	445 nm	660 nm
Laser Class (EN 60825-1)		2	1
Service Life (T = +25 °C)	100000 h	100000 h	100000 h
Max. Ambient Light	10000 Lux	100000 Lux	10000 Lux
Beam Divergence			< 2 mrad
Electrical data			
Supply Voltage	18...30 V DC	18...30 V DC	18...30 V DC
Current Consumption (U _b = 24 V)	< 50 mA	< 60 mA	< 70 mA




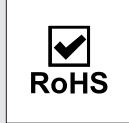

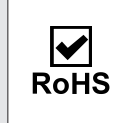










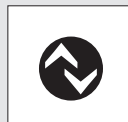


	Discontinued product HT66MGV80	Alternative product 1 P1PY217	Alternative product 2 OY1P303P0102
Cut-Off Frequency	100 Hz		
Switching Frequency			250 Hz
Measuring Rate		100 /s*	1...500 /s
Measuring Rate (max.)		500 /s*	
Response Time	5 ms		
On-/Off-Delay			0...10000 ms
Temperature Drift	200 µm/K	< 0,4 mm/K	< 0.4 mm/K
Temperature Range	-10...60 °C	-40...50 °C	-40...50 °C
Number of Switching Outputs			2
Switching Output Voltage Drop	< 2.5 V		< 2.5 V
Switching Output/Switching Current			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 V1.1.3	IO-Link V1.1
Baud Rate		COM3	
Protection Class	III	III	III
FDA Accession Number		2412451-000	
Mechanical data			
Setting Method		(OLED)/Bluetooth menu	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			
analog output		0...10 V	0...10 V 4...20 mA
Output		Error Output Warning output	Analog Output Error Output Push-pull

	Discontinued product HT66MGV80	Alternative product 1 P1PY217	Alternative product 2 OY1P303P0102
Other parameters		Off-delay On-delay Sensitivity Filter Emitted light Sensor localization Teach mode Unit of measure Measuring mode	NPN PNP Contamination Output Off-delay Scale analog output On-delay Filter Hysteresis Emitted light Teach mode
		* Depending on mode	

Technical drawings/connection diagrams/approvals

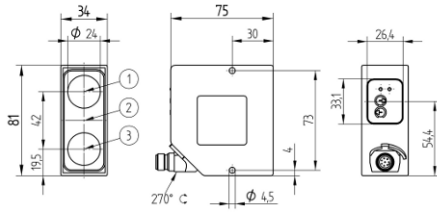
connection diagram			
control panel	<p>13 = Upper Potentiometer 14 = Lower Potentiometer 01 = Switching Status Indicator 33 = Analog Voltage Output-/Error Warning</p>	<p>68 = Power LED 5a = Switching Status Indicator, A1 20 = Enter key 60 = display 7c = Analog Output Indicator, O</p>	<p>20 = Enter key 22 = Up key 23 = Down key 60 = display</p>

Approvals

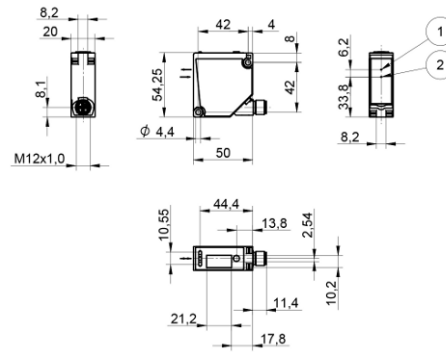
Dimensioned images

HT66MGV80



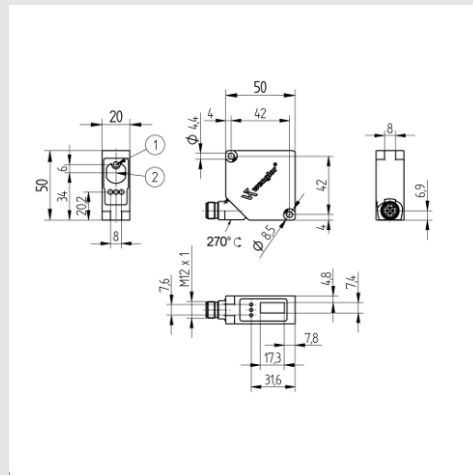
- ① Receiver Diode
 - ② Transmitter Diode
 - ③ Receiver Diode
- Screw M4 = 1 Nm

P1PY217



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

OY1P303P0102



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

Light spot diameter and resolution

HT66MGV80

Working Distance	350 mm	600 mm	850 mm
Light Spot Diameter	6 mm	10 mm	20 mm
Resolution	0,3 mm	3 mm	8 mm

P1PY217

Working Distance	0 m	2,5 m	5 m
Spot Size	2,5 × 5 mm	25 × 60 mm	65 × 160 mm

OY1P303P0102

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