

**Reflex Sensor**  
for Measuring Tasks



**YT25MGV80 LASER**

Part Number

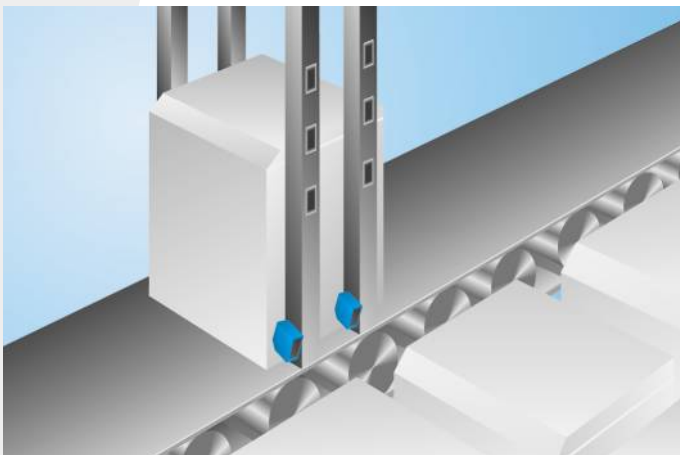


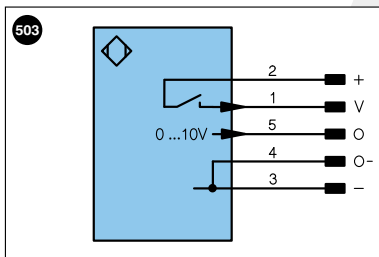
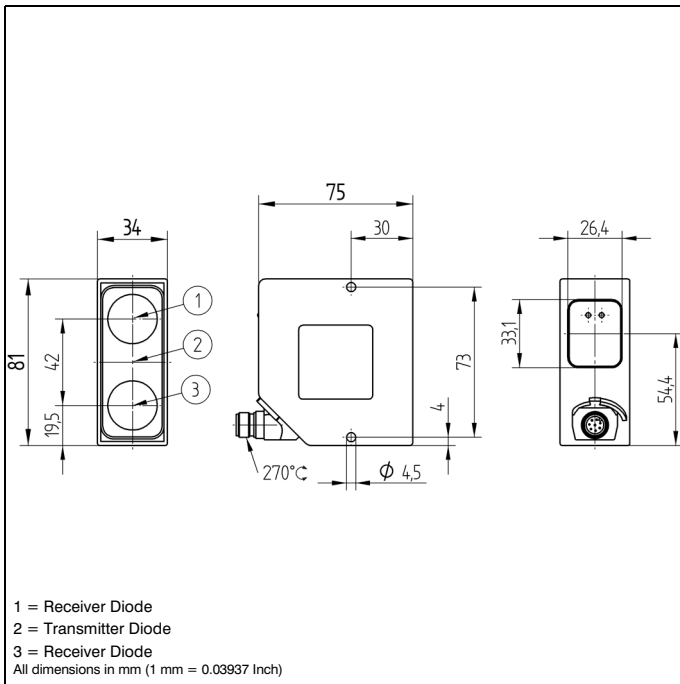
- **Analog Output: 0...10 V DC**
- **Error Output**
- **Linearity: 1 %**
- **Triple Beam Correction Principle**

**Technical Data**

Optical Data	
Working Range	150...250 mm
Measuring Distance	200 mm
Measuring Range	100 mm
Resolution	200 µm
Linearity	1 %
Light Source	Laser (red)
Wave Length	660 nm
Service Life (T = +25 °C)	100000 h
Laser Class (EN 60825-1)	2
max. Ambient Light	10000 Lux
Light Spot Diameter at a Distance of	1 mm
Focus Distance	200 mm
	100 mm
Electrical Data	
Supply Voltage	18...30 V DC
Current Consumption (U <sub>b</sub> = 24 V)	< 25 mA
Cut-Off Frequency	250 Hz
Response Time	2 ms
Temperature Drift	50 µm/K
Temperature Range	-10...60 °C
Error Output Voltage Drop	< 2,5 V
Analog Output	0...10 V
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Protection Class	III
Mechanical Data	
Housing	Plastic
Degree of Protection	IP67
Connection	M12 × 1
Error Output	●
Analog Output	●
Connection Diagram No.	503
Control Panel No.	T 3
Suiting Connection Technology No.	80
Suiting Mounting Technology No.	330

These sensors are equipped with an analog output and can thus be utilized for measuring tasks. The output signal is practically independent of the object's color. High resolution and a wide variety of measuring ranges allow for use in innumerable applications.





Legend					
+	Supply Voltage +	U	Test Input	PoE	Power over Ethernet
-	Supply Voltage 0 V	Ū	Test Input inverted		
~	Supply Voltage (AC Voltage)	W	Trigger Input		
A	Switching Output (NO)	O	Analog Output		
Ā	Switching Output (NC)	O-	Ground for the Analog Output		Wire Colors according to DIN IEC 757
V	Contamination/Error Output (NO)	BZ	Block Discharge	BK	Black
V̄	Contamination/Error Output (NC)	AwV	Valve Output	BN	Brown
E	Input (analog or digital)	a	Valve Control Output +	RD	Red
T	Teach Input	b	Valve Control Output 0 V	OG	Orange
Z	Time Delay (activation)	SY	Synchronization	YE	Yellow
S	Shielding	E+	Receiver-Line	GN	Green
RxD	Interface Receive Path	S+	Emitter-Line	BU	Blue
TxD	Interface Send Path	±	Grounding	VT	Violet
RDY	Ready	SnR	Switching Distance Reduction	GY	Grey
GND	Ground	Rx +/-	Ethernet Receive Path	WH	White
CL	Clock	Tx +/-	Ethernet Send Path	PK	Pink
E/A	Output/Input programmable	Bus	Interfaces-Bus A(+)/B(-)	GNYE	Green Yellow
	IO-Link	La	Emitted Light disengageable		

## Complimentary Products

Analog Evaluation Unit AW02

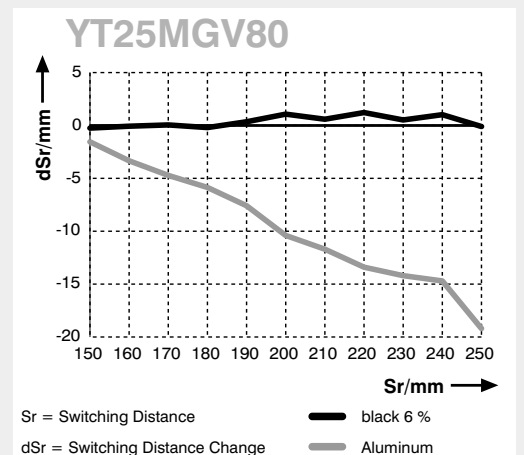
## Ctrl. Panel



03 = Error Indicator  
12 = Analog Output Indicator

## Error of Measurement

Typical characteristic curve based on Kodak white, 90 %



Specifications are subject to change without notice