

**Reflex Sensor**  
for Measuring Tasks



**YT44MGV80 LASER**

Part Number

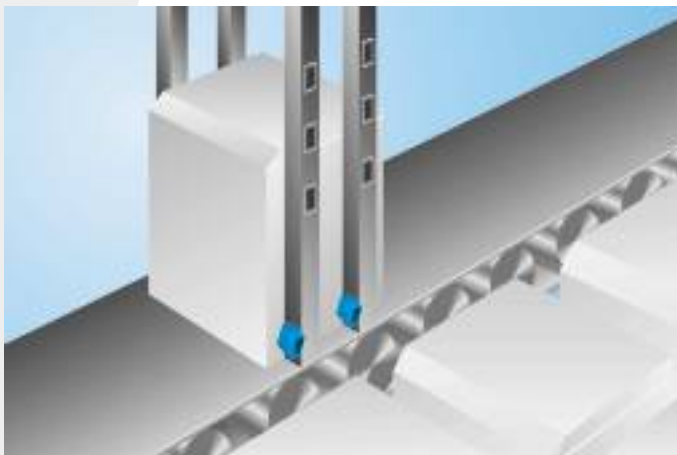


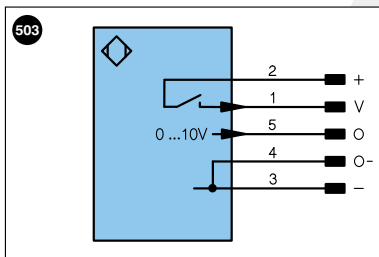
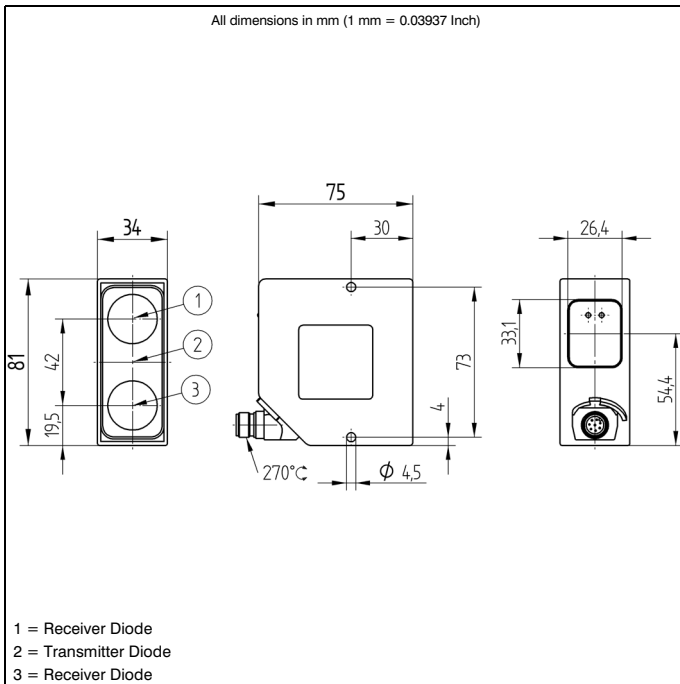
- **Analog Output: 0...10 V DC**
- **Error Output**
- **Linearity < 1 %**
- **Measuring Range: 200 mm**

**Technical Data**

Optical Data	
Working Range	190...390 mm
Measuring Distance	290 mm
Measuring Range	200 mm
Resolution	500 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	2 mm
	300 mm
Electrical Data	
Supply Voltage	18...30 V DC
Current Consumption (U <sub>b</sub> = 24V)	< 25 mA
Cut-Off Frequency	250 Hz
Response Time	2 ms
Temperature Drift	75 μm/K
Temperature Range	-25...60 °C
Error Output Voltage Drop	< 2,5 V
PNP Error Output/Switching Current	200 mA
Analog Output	0...10 V
Output Current Analog Output	500 μA
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Mechanical Data	
Housing	Plastic
Degree of Protection	IP 67
Connection	M12 x 1
Protective Insulation, Rated Voltage	50 V
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		Wire colors according to DIN IEC 757
+	Power supply "+"	BK black
-	Power supply "0V"	BN brown
~	Power supply (AC Voltage)	RD red
A	Switching output (1,2,3...) / NO	OG orange
$\bar{A}$	Switching output (1,2,3...) / NC	YE yellow
V	Contamination / Error output (NO)	GN green
$\bar{V}$	Contamination / Error output (NC)	BU blue
E	Input (analog or digital)	VT violet
T	Teach input	GY grey
Z	Time delay (activation)	WH white
S	Shielding	PK pink
RxD	RS-232 receive path	GNYE green yellow
TxD	RS-232 send path	
RDY	Ready	
GND	Ground	
CL	Clock	
E/A	Output/Input programmable	
U	Test input	
$\bar{U}$	Test input inverted	
W	Trigger input	
O	Analog output	
O-	Ground for the analog output	
BZ	Block discharge	
AWV	Valve output	
a	Valve control output "+"	
b	Valve control output "0V"	
SY	Synchronization	
E+	Receiver-Line	
S+	Emitter-Line	
$\pm$	Grounding	
SnR	Switching Distance Reduction	
USBD+	USB data +	
USBD-	USB data -	
Bus	Interfaces-Bus A(+)/B(-)	
La	Emitted light disengageable	

## Complimentary Products

Analog Evaluation Unit AW02

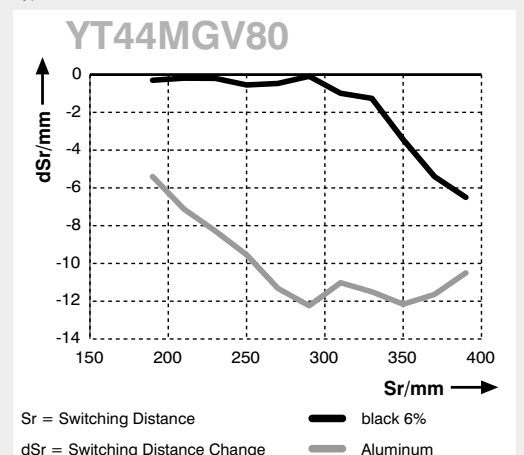
## Ctrl.Panel



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