Reflex Sensor with Analog Output

HT60MGV80

Part Number

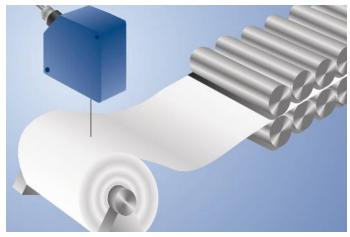


- Digital, analog and error output
- Go/no-go testing possible
- Red light
- Triple beam correction principle

Technical Data

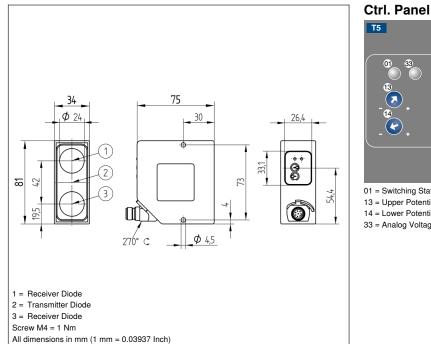
Optical Data					
Working Range	300600 mm				
Measuring Distance	450 mm				
Measuring Range	300 mm				
Resolution	see Table 1				
Linearity	1 %				
Switching Hysteresis	20 mm				
Light Source	Red Light				
Wave Length	660 nm				
Service Life (T = +25 °C)	100000 h				
Max. Ambient Light	10000 Lux				
Spot Diameter	see Table 1				
Electrical Data					
Supply Voltage	1830 V DC				
Current Consumption (Ub = 24 V)	< 50 mA				
Cut-Off Frequency	50 Hz				
Response Time	10 ms				
Temperature Drift	100 μm/K				
Temperature Range	-1060 °C				
Switching Output Voltage Drop	< 2,5 V				
PNP Switching Output/Switching Current	200 mA				
Error Output Voltage Drop	< 2,5 V				
PNP Error Output/Switching Current	200 mA				
Analog Output	010 V				
Output Current Analog Output	500 <i>µ</i> A				
Short Circuit Protection	yes				
Reverse Polarity Protection	yes				
Overload Protection	yes				
Protection Class	n Class III				
Mechanical Data					
Housing Material	Plastic				
Degree of Protection	IP67				
Connection	M12 × 1; 8-pin				
Error Output					
PNP NO					
Analog Output					
Connection Diagram No.	506				
Control Panel No.	T5				
Suitable Connection Technology No.	80				
Suitable Mounting Technology No.	330				

These sensors are equipped with an analog output, as well as a digital output. The upper and lower switching points of the digital output can be adjusted with two potentiometers. The digital output is activated when an object is located within the window defined in this way.



Complementary Products
Analog Evaluation Unit AW02





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01 = Switching Status Indicator 13 = Upper Potentiometer

14 = Lower Potentiometer

33 = Analog Voltage Output-/Error Warning

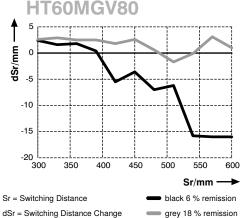
Logond								
Legend		PT	Platinum measuring resistor	ENA	Encoder A			
+	Supply Voltage +	nc	not connected	ENв	Encoder B			
-	Supply Voltage 0 V	U	Test Input	Amin	Digital output MIN			
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	Амах	Digital output MAX			
А	Switching Output (NO)	W	Trigger Input	Аок	Digital output OK			
Ā	Switching Output (NC)	0	Analog Output	SY In	Synchronization In			
V	Contamination/Error Output (NO)	0-	Ground for the Analog Output	SY OUT				
V	Contamination/Error Output (NC)	BZ	Block Discharge	OLT	Brightness output			
E	Input (analog or digital)	Awv	Valve Output	м	Maintenance			
Т	Teach Input	а	Valve Control Output +					
Z	Time Delay (activation)	b	Valve Control Output 0 V					
S	Shielding	SY	Synchronization	Wire Colors according to				
RxD	Interface Receive Path	E+	Receiver-Line	DIN IEC 757				
TxD	Interface Send Path	S+	Emitter-Line	BK	Black			
RDY	Ready	÷	Grounding	BN	Brown			
GND	Ground	SnR	Switching Distance Reduction	RD	Red			
CL	Clock	Rx+/-	Ethernet Receive Path		Orange			
E/A	Output/Input programmable	Tx+/-	Ethernet Send Path	YE	Yellow			
۲	IO-Link	Bus	Interfaces-Bus A(+)/B(-)	GN	Green			
PoE	Power over Ethernet	La	Emitted Light disengageable	BU	Blue			
IN	Safety Input	Mag	Magnet activation	VT	Violet			
OSSD	Safety Output	RES	Input confirmation	GY	Grey			
Signal	Signal Output	EDM	Contactor Monitoring	WH	White			
BI_D+/-	Ethernet Gigabit bidirect. data line (A-D)	ENARS422	Encoder A/Ā (TTL)		Pink			
ENersez Encoder 0-pulse 0-0 (TTL) ENersez Encoder B/B (TTL) GNYE Green/Yellow								

Table 1

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

Error of Measurement

Typical characteristic curve based on Kodak white (90 % remission)





506

 \Diamond

0...10V

dSr = Switching Distance Change