Reflex Sensor with Analog Output

HN24MGV-P24

Part Number

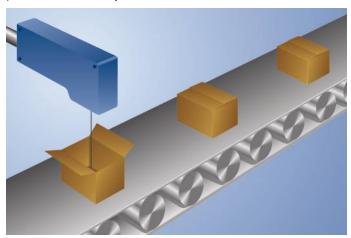


- Analog output (0...10 V DC)
- Error output
- Large measuring range
- Red light

Technical Data

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Optical Data					
Working Range	55155 mm				
Measuring Distance	105 mm				
Measuring Range	100 mm				
Resolution	500 μm				
Linearity	1 %				
Light Source	Red Light				
Wavelength	660 nm				
Service Life (T = +25 °C)	100000 h				
Max. Ambient Light	10000 Lux				
Light Spot Diameter	3 mm				
Electrical Data					
Supply Voltage	1830 V DC				
Current Consumption (Ub = 24 V)	< 40 mA				
Cut-Off Frequency	100 Hz				
Response Time	5 ms				
Temperature Drift	50 μm/K				
Temperature Range	-1060 °C				
PNP Error Output/Switching Current	200 mA				
Analog Output	010 V				
Output Current Analog Output	500 μA				
Short Circuit Protection	yes				
Reverse Polarity Protection	yes				
Protection Class	III				
Mechanical Data					
Housing Material	Plastic				
Full Encapsulation	yes				
Degree of Protection	IP67				
Connection	Cable, 6-wire, 6 m				
Error Output	•				
Analog Output					
Connection Diagram No.	603				
Control Panel No.	N2				
Suitable Mounting Technology No.	350				

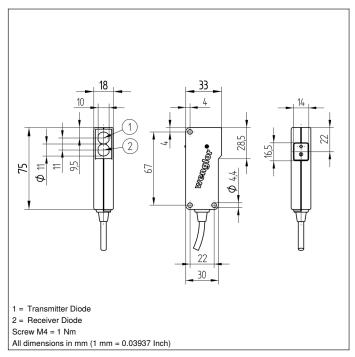
These sensors can measure distances and display analog output. Their high resolution and wide variety of measuring ranges allow them to be used in innumerable applications. The output signal is practically independent of the object's color.



Complementary Products

Analog Evaluation Unit AW02
Dust Extraction Tube STAUBTUBUS-03
Set Protective Housing ZSN-NN-02

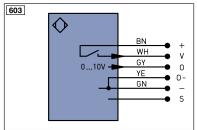




Ctrl. Panel



- 03 = Error Indicator
- 12 = Analog Output Indicator



_eger	nd	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
Α	Switching Output (NO	O) W		Trigger Input	Аок	Digital output OK
Ā	Switching Output (NO			Analog Output	SY In	Synchronization In
٧	Contamination/Error Output (NO	O) O-	-	Ground for the Analog Output	SY OUT	Synchronization OUT
V	Contamination/Error Output (NO	C) BZ		Block Discharge	OLT	Brightness output
E	Input (analog or digital)	Aw	W	Valve Output	М	Maintenance
Т	Teach Input	а		Valve Control Output +	rsv	reserved
Z	Time Delay (activation)	b		Valve Control Output 0 V		
S	Shielding	SY		Synchronization		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	SnF	R .	Switching Distance Reduction	RD	Red
CL	Clock	Rx-	+/-	Ethernet Receive Path	OG	Orange
E/A	Output/Input programmable	Tx-	+/-	Ethernet Send Path	YE	Yellow
0	IO-Link	Bus		Interfaces-Bus A(+)/B(-)	GN	Green
PoE	Power over Ethernet	La		Emitted Light disengageable	BU	Blue
IN	Safety Input	Mag	g	Magnet activation	VT	Violet
OSSD		RES	5	Input confirmation	GY	Grey
Signal	Signal Output	EDI		Contactor Monitoring	WH	White
BI_D+/-	- Ethernet Gigabit bidirect. data line	e (A-D) ENA		Encoder A/Ā (TTL)	PK	Pink
	2 Encoder 0-pulse 0-0 (TTL)	. ,		Encoder B/B (TTL)	GNYE	Green/Yellow

Error of Measurement

Typical characteristic curve based on white, 90 % remission

