

Reflex Sensors

for Measuring Tasks

HN24MGV-P24

Part Number



- Analog Output: 0...10 V DC
- Error Output
- Large Measuring Range
- Red Light

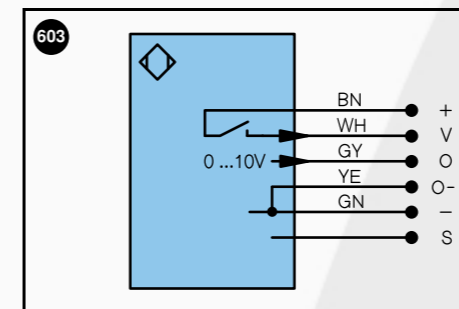


Technical Data

Optical Data	
Working Range	55...155 mm
Measuring Distance	105 mm
Measuring Range	100 mm
Resolution	500 µm
Linearity	1 %
Light Source	Red Light
Wave Length	660 nm
Service Life (T = +25°C)	100000 h
max. Ambient Light	10000 Lux
Light Spot Diameter	3 mm
Electrical Data	
Supply Voltage	18...30 V DC
Current Consumption (U _b = 24V)	< 40 mA
Cut-Off Frequency	100 Hz
Response Time	5 ms
Temperature Drift	50 µm/°C
Temperature Range	-10...60 °C
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
Mechanical Data	
Housing	Plastic
Full Encapsulation	yes
Protection Mode	IP 67
Connection	Prewired
Cabel Length	6 m
Protective Insulation, Rated Voltage	50 V



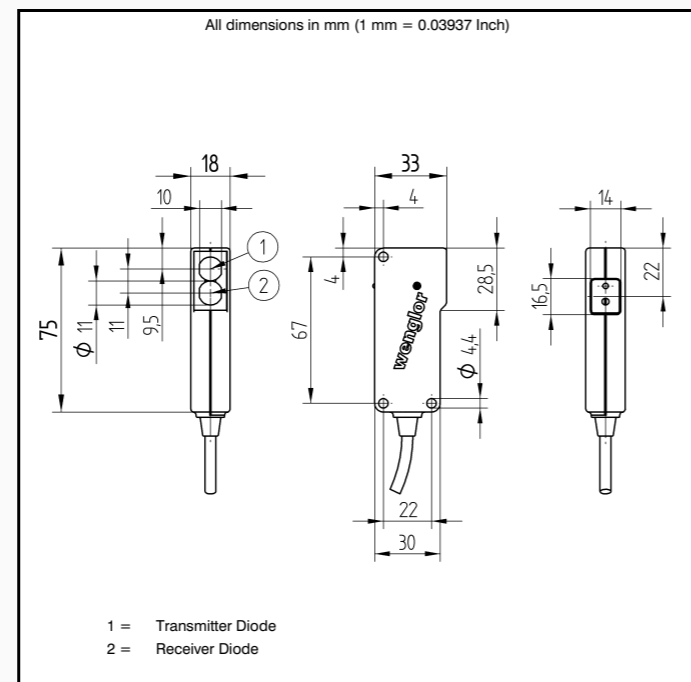
Prewired Version	
Part Number	HN24MGV-P24
Error Output	●
Analog Output	●
Connection Diagram No.	603
Control Panel No.	N 2



Legend			
+	Power supply "+"	U	Test input
-	Power supply "0V"	W	Trigger input
-	Power supply (AC Voltage)	o	Analog output (1,2,3,...)
A	Switching output (1,2,3...)/ NO	O-	Ground for the analog output
V	Switching output (1,2,3...)/ NC	BZ	Block discharge
V	Contamination / Error output (NO)	Aw	Valve output
E	Contamination / Error output (NC)	a	Valve control output "+"
E	Input (analog or digital)	b	Valve control output "0V"
T	Teach input	SY	Synchronization
Z	Time delay (activation)	E+	Receiver-Line
S	Shielding	S+	Emitter-Line
RxD	RS-232 receive path	⊕	Grounding
TxD	RS-232 send path		

Wire colors according to DIN IEC 757	
BK	black
BN	brown
RD	red
OG	orange
YE	yellow
GN	green
BU	blue
VT	violet
GY	grey
WH	white
PK	pink
GNYE	green yellow

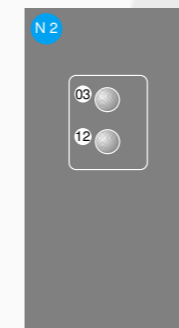
These sensors are equipped with an analog output and can thus be utilized for measuring tasks. The output signal is practically independent of the object's color. High resolution and a wide variety of measuring ranges allow for use in innumerable applications.



Accessories

- Analog Evaluation Unit AW01
- Mounting Bracket WN

Ctrl. Panel



- 03 = Error Indicator
- 12 = Analog Output Indicator

Error of Measurement

Typical characteristic curve based on Kodak white, 90%

