

Reflex Sensor for Measuring Tasks



HD09MG-P24

Part Number

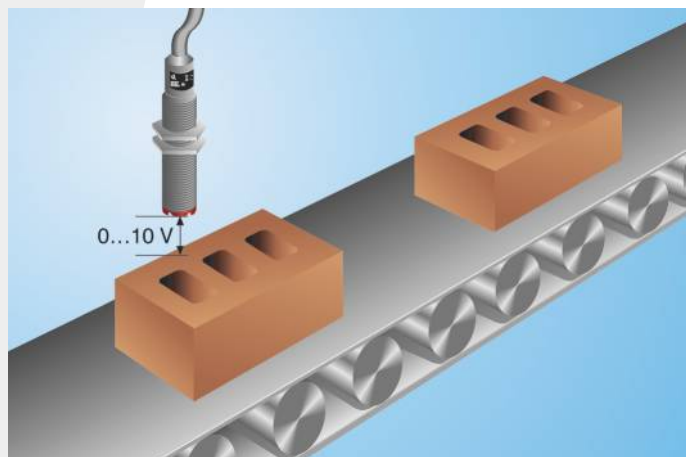


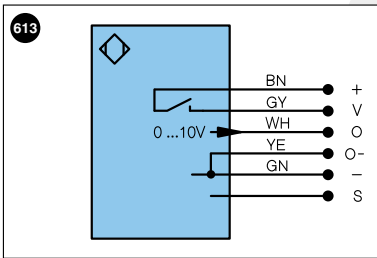
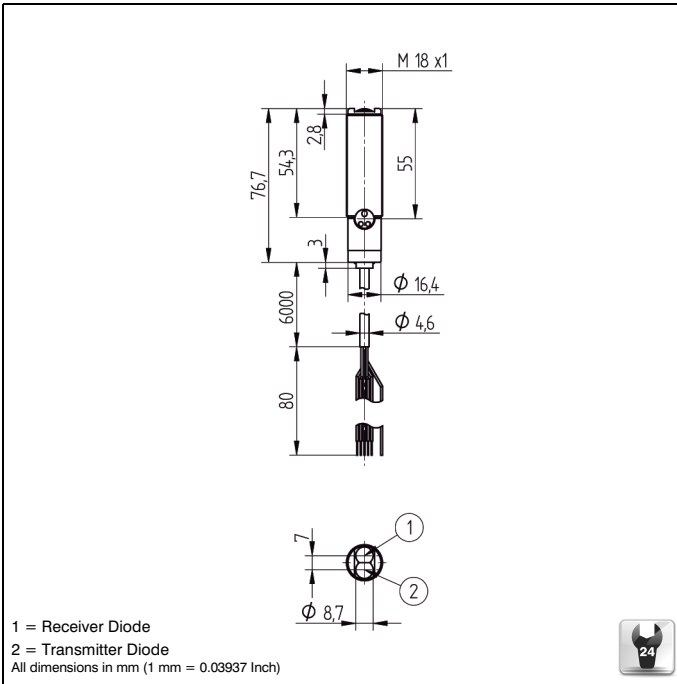
- Analog Output
- Error Message
- Red Light

Technical Data

Optical Data	
Working Range	35...85 mm
Measuring Distance	60 mm
Measuring Range	50 mm
Resolution	500 µm
Linearity	< 2 %
Light Source	Red Light
Wave Length	660 nm
Service Life (T = +25 °C)	100000 h
max. Ambient Light	10000 Lux
Light Spot Diameter	2 mm
Electrical Data	
Supply Voltage	18...30 V DC
Current Consumption (U _b = 24 V)	< 40 mA
Cut-Off Frequency	100 Hz
Response Time	5 ms
Temperature Drift	35 µm/K
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
Protection Class	III
Mechanical Data	
Housing	Stainless Steel
Full Encapsulation	yes
Degree of Protection	IP67
Connection	Prewired
Cable Length	6,1 m
Analog Output	●
Connection Diagram No.	613
Control Panel No.	D13
Suiting Mounting Technology No.	150 160

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.



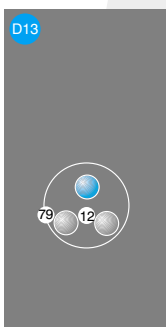


Legend					
+	Supply Voltage +	U	Test Input	PoE	Power over Ethernet
-	Supply Voltage 0 V	U̅	Test Input inverted		
~	Supply Voltage (AC Voltage)	W	Trigger Input		
A	Switching Output (NO)	O	Analog Output		
A̅	Switching Output (NC)	O-	Ground for the Analog Output		Wire Colors according to DIN IEC 757
V	Contamination/Error Output (NO)	BZ	Block Discharge	BK	Black
V̅	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		

Complementary Products

Analog Evaluation Unit AW02
Dust extraction tube STAUBTUBUS-01

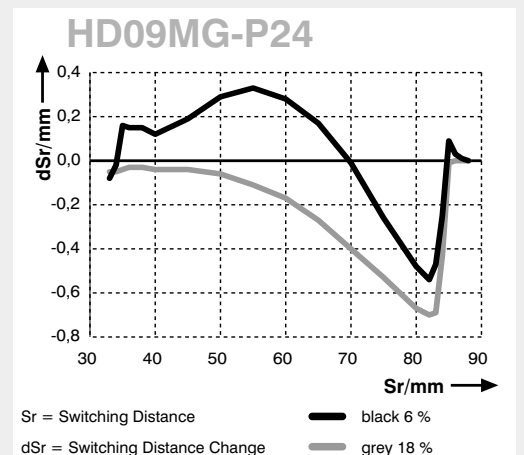
Ctrl. Panel



12 = Analog Output Indicator
79 = Run / Error Indicator

Error of Measurement

Typical characteristic curve based on Kodak white, 90 %



Specifications are subject to change without notice