Reflex Sensor with Analog Output

HT66MGV80

Part Number



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

Technical Data

Optical Data	
Working Range	350850 mm
Measuring Distance	600 mm
Measuring Range	500 mm
Resolution	see Table 1
Linearity	1 %
Switching Hysteresis	20 mm
Light Source	Infrared Light
Wavelength	880 nm
Service Life (T = +25 °C)	100000 h
Risk Group (EN 62471)	1
Max. Ambient Light	10000 Lux
Light Spot Diameter	see Table 1
Electrical Data	
Supply Voltage	1830 V DC
Current Consumption (Ub = 24 V)	< 50 mA
Cut-Off Frequency	100 Hz
Response Time	5 ms
Temperature Drift	200 <i>µ</i> m/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	III
Mechanical Data	
Housing Material	Plastic
Degree of Protection	IP67
Connection	M12 × 1; 8-pin
Error Output	
PNP NO	Ŏ
Analog Output	ě
Connection Diagram No.	506
Control Panel No.	Т5
Suitable Connection Equipment 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





Legend

Su

Swi Swi

+ Su Su



13 = Upper Potentiometer

14 = Lower Potentiometer

33 = Analog Voltage Output-/Error Warning

		PŤ	Platinum measuring resistor	ENAR5422	Encoder A/Ā (TTL)
pply Voltage +		nc	not connected	ENBR5422	_ , ,
ipply Voltage 0 V		U	Test Input	ENA	Encoder A
pply Voltage (AC Voltage)		Ū	Test Input inverted	ENв	Encoder B
vitching Output	(NO)	W	Trigger Input	Amin	Digital output MIN
vitching Output	(NC)	W -	Ground for the Trigger Input	Амах	Digital output MAX
ontamination/Error Output	(NO)	0	Analog Output	Аок	Digital output OK
ontamination/Error Output	(NC)	0-	Ground for the Analog Output	SY In	Synchronization In
out (analog or digital)		BZ	Block Discharge	SY OUT	Synchronization OUT
ach Input		Awv	Valve Output	OLT	Brightness output
ne Delay (activation)		а	Valve Control Output +	м	Maintenance
nielding		b	Valve Control Output 0 V	rsv	reserved
erface Receive Path		SY	Synchronization	Wire Co	lors according to DIN IEC 757
erface Send Path		SY-	Ground for the Synchronization	BK	Black
ady		E+	Receiver-Line	BN	Brown
ound		S+	Emitter-Line	RD	Red
ock		÷	Grounding	OG	Orange
utput/Input programmable		SnR	Switching Distance Reduction		Yellow
O -Link		Rx+/-	Ethernet Receive Path	GN	Green
wer over Ethernet		Tx+/-	Ethernet Send Path	BU	Blue
ifety Input		Bus	Interfaces-Bus A(+)/B(-)	VT	Violet
ifety Output		La	Emitted Light disengageable	GY	Grey
gnal Output		Mag	Magnet activation	WH	White
hernet Gigabit bidirect. data	line (A-D)	RES	Input confirmation		Pink
coder 0-pulse 0-0 (TTL)		EDM	Contactor Monitoring	GNYE	Green/Yellow

Table 1

Working Distance	350 mm	600 mm	850 mm
Light Spot Diameter	6 mm	10 mm	20 mm
Resolution	0,3 mm	3 mm	8 mm

Error of Measurement

Typical characteristic curve based on white, 90 % remission



506 \Diamond A ۷ 5 0...10V 0 4 0-3 _ nc 🔳 nc

A Ā V Cor Cor v E T Inp Tea S Shie RxD Inte TxD Inte RDY Rea GND Gro CL Clo CL E/A Out IC Pov 0 PoF IN Saf OSSD Saf OSSD San Signal Sign BI_D+/- Eth ENersazz Encoder 0-pulse 0-0 (TTL)

Specifications are subject to change without notice

