Reflex Sensors

for Measuring Tasks

LASER

W wenglor®

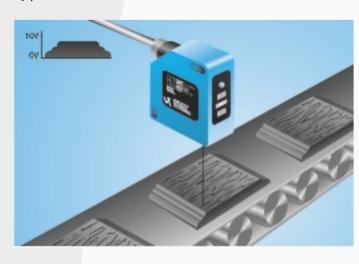
CP35MHT80

Part Number



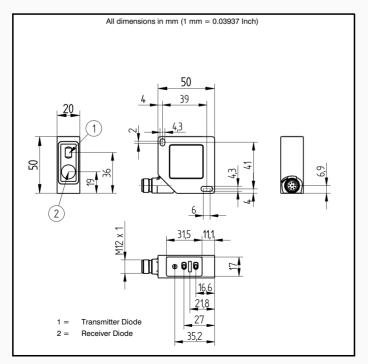
- Analog Output can be set to 0...10 V or 4...20 mA, RS-232 Interface
- Linearity: 0,4%
- Measured value independent of material, color and brightness
- Photodiodeline array technology

The output signal of the diffuse light sensor is practically independent of brightness, color and surface characteristics of the object to be measured. Even distances to glossy, black painted surface can be precisely measured. The measuring range can be set with the Teach-In function so that the full output range (0...10 V or 4...20 mA) can be exploited in all applications.



Technical Data

Ontinal Data	
Optical Data	50350 mm
Working Range	
Measuring Distance	200 mm
Measuring Range	300 mm
Resolution	< 250 μm
Linearity	0.4 %
Light Source	Laser (red)
Wave Length	660 nm
Service Life (T = +25°C)	100000 h
Laser Protection Class (EN 60825-1)	2
max. Ambient Light	10000 Lux
Electrical Data	
Supply Voltage	1830 V DC
Current Consumption (Ub = 24V)	< 60 mA
Cut-Off Frequency	150 Hz
Response Time	< 3300 μs
Temperature Drift	< 25 μm/°C
Temperature Range	-2560 °C
Error Output Voltage Drop	< 2.5 V
PNP Error Output/Switching Current	200 mA
Analog Output	010 V
Current Load Voltage Output	< 1 mA
Analog Output	420 mA
Current Output Load Resistance	< 500 Ohm
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Interface	RS-232
Baud Rate	38400 Bd
Protocol	8 N 1
Mechanical Data	
Adjustment	Teach-In
Housing	Plastic
Protection Mode	IP 67
Connection	M 12x1
Protective Insulation, Rated Voltage	50 V

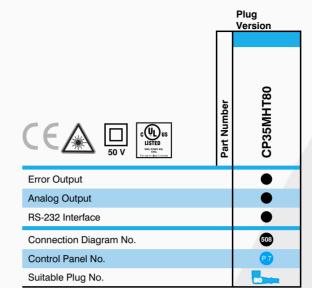


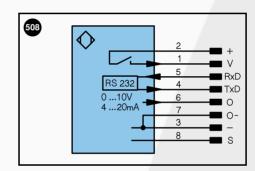
Specifications are subject to change without notice

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Working Distance	50 mm	
Light Spot Size	0.6 x 1.5 mm	1.5 x 4 mm







Accessories

Mounting Bracket WP

Serial Interface Adapter S232W2

Ctrl.Panel



- 03 = Error Indicator
- 07 = Selector Switch
- 12 = Analog Output Indicator
- 24 = Plus Button
- 25 = Minus Button
- 63 = Analog Output Current Indicator