

OCP352H0180

LASER

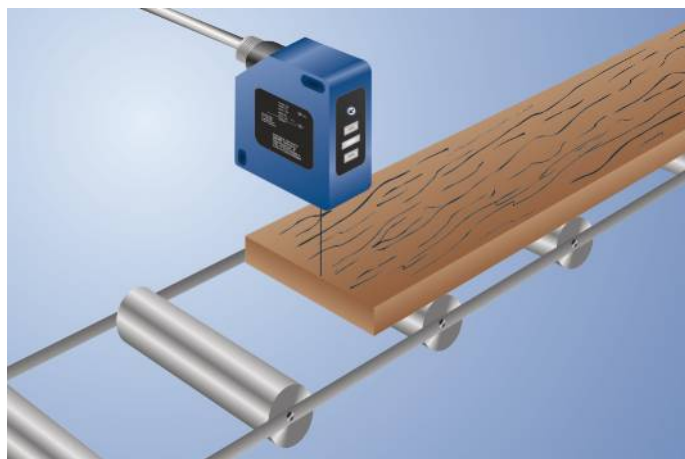
Part Number



- High resolution: 50 μm (resolution-mode)
- Linearity: 0,15 % (resolution-mode)
- Measured value independent of material, color and brightness
- Zoom function

These sensors work with a high-resolution CMOS line and DSP technology and determine distance using angular measurement. As a result, material, color and brightness related measurement differences are virtually eliminated.

Integrated analogue output can be configured for voltage 0...10 V (10...0 V) or current 4...20 mA (20...4 mA).

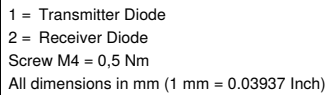


Technical Data

Optical Data	
Working Range	50...350 mm
Measuring Range	300 mm
Resolution	50 μm
Resolution (Speed-Mode)	80 μm
Linearity	0,15 %
Linearity (Speed-Mode)	0,2 %
Light Source	Laser (red)
Wavelength	660 nm
Service Life (T = +25 °C)	100000 h
Laser Class (EN 60825-1)	1
Max. Ambient Light	10000 Lux
Light Spot Diameter	see Table 1
Electrical Data	
Supply Voltage	18...30 V DC
Current Consumption (U _b = 24 V)	< 80 mA
Measuring Rate	500 /s
Measuring Rate (Resolution-Mode)	250 /s
Response Time	< 2000 μs
Response Time (Resolution Mode)	< 4000 μs
Temperature Drift	< 25 $\mu\text{m/K}$
Temperature Range	-25...50 °C
Analog Output	0...10 V/4...20 mA
Load Current Voltage Output	< 1 mA
Current Output Load Resistance	< 500 Ohm
Interface	RS-232
Baud Rate	38400 Bd
Protection Class	III
FDA Accession Number	1120723-000
Mechanical Data	
Setting Method	Teach-In
Housing Material	Plastic
Degree of Protection	IP67
Connection	M12 × 1; 8-pin
Safety-relevant Data	
MTTFd (EN ISO 13849-1)	713,97 a
Error Output	●
Analog Output	●
RS-232 Interface	●
Connection Diagram No.	529
Control Panel No.	P7
Suitable Connection Equipment No.	80
Suitable Mounting Technology No.	380

Complementary Products

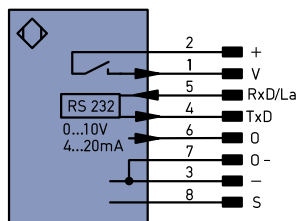
Analog Evaluation Unit AW02
Fieldbus Gateway ZAGxxxN01, EPGG001
Interface Cable S232W3
Protective Housing ZSV-0x-01
Set Protective Housing ZSP-NN-02
Software



P7

Diagram illustrating a 7-ball pool rack. The balls are numbered 1 through 7. The cue ball (1) is blue with a white arrow pointing up. The other balls are arranged in a triangular rack: 25 (blue), 63 (white), 12 (white), 03 (white), 24 (white), 07 (white), and 03 (white).

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+	Supply Voltage +
–	Supply Voltage 0 V
~	Supply Voltage (AC Voltage)
A	Switching Output (NO)
Ā	Switching Output (NC)
V	Contamination/Error Output (NO)
Ē	Contamination/Error Output (NC)
E	Input (analog or digital)
T	Teach Input
Z	Time Delay (activation)
S	Shielding
RxD	Interface Receive Path
TxD	Interface Send Path
RDY	Ready
GND	Ground
CL	Clock
E/A	Output/Input programmable
	IO-Link
PoE	Power over Ethernet
IN	Safety Input
QSSD	Safety Output
Signal	Signal Output
BL-D+/–	Ethernet Gigabit bidirect. data line (A-D)
EN0 RS422	Encoder 0-pulse 0-0 (TTL)

PT	Platinum measuring resistor
nc	not connected
U	Test Input
$\bar{U}$	Test Input inverted
W	Trigger Input
W-	Ground for the Trigger Input
O	Analog Output
O-	Ground for the Analog Output
BZ	Block Discharge
AWV	Valve Output
a	Valve Control Output +
b	Valve Control Output 0 V
SY	Synchronization
SY-	Ground for the Synchronization
E+	Receiver-Line
S+	Emitter-Line
$\underline{\pm}$	Grounding
S_NR	Switching Distance Reduction
R_x+/-	Ethernet Receive Path
T_x+/-	Ethernet Send Path
Bus	Interfaces-Bus A(+)/B(-)
La	Emitted Light disengageable
Mag	Magnet activation
RES	Input confirmation
EDM	Contactorm Monitoring

EN _{A542}	Encoder A/ $\bar{A}$ (TTL)
EN _{B542}	Encoder B/ $\bar{B}$ (TTL)
EN _A	Encoder A
EN _B	Encoder B
A _{MIN}	Digital output MIN
A _{MAX}	Digital output MAX
A _{OK}	Digital output OK
S _Y In	Synchronization In
S _Y OUT	Synchronization OUT
O _L T	Brightness output
M	Maintenance
rsv	reserved
Wire Colors according to IEC 60757	
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

Working Distance	50 mm	350 mm
Spot Size	0,4 × 1 mm	1,4 × 3,1 mm

Specifications are subject to change without notice

