Contrast Sensor

YP11MVV80

Part Number



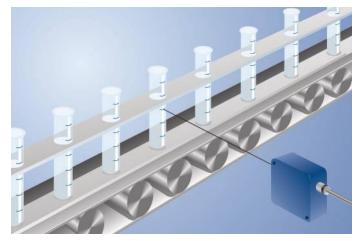
LASER

- Analog output (0...10 V DC)
- Switching frequency: 10 kHz

Technical Data

Optical Data	
Working Range	50100 mm
Measuring Range	50 mm
Resolution	20 mV
Switching Hysteresis	200 mV
Light Source	Laser (red)
Wavelength	660 nm
Service Life (T = +25 °C)	100000 h
Laser Class (EN 60825-1)	2
Max. Ambient Light	10000 Lux
Light Spot Diameter	0,5 mm
at a Distance of	100 mm
Electrical Data	
Supply Voltage	1830 V DC
Cut-Off Frequency	10 kHz
Response Time	50 <i>µ</i> s
Temperature Drift	10 mV/K
Temperature Range	-1060 °C
Switching Output Voltage Drop	1,5 V DC
PNP Switching Output/Switching Current	200 mA
Analog Output	010 V
Short Circuit Protection	yes
Overload Protection	yes
Protection Class	III
Mechanical Data	
Setting Method	Potentiometer
Housing Material	Plastic
Full Encapsulation	yes
Degree of Protection	IP67
Connection	M12 × 1; 8-pin
PNP NO	
Analog Output	O
Connection Diagram No.	504
Control Panel No.	P1
Suitable Connection Equipment No.	80
Suitable Mounting Technology No.	380

These sensors are especially well suited for high speed indication of contrast differences by means of an analog output voltage.

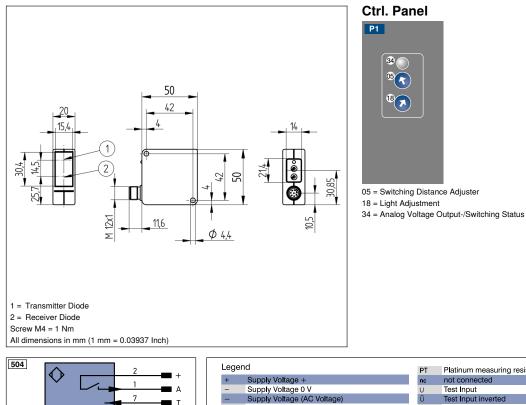


Complementary Products

Protective Housing ZSV-0x-01 Set Protective Housing ZSP-NN-02

Photoelectronic Sensors





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GND CL E/A

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Switching Output Switching Output

T Teach Input Z Time Delay (activation) S Shielding RxD Interface Receive Path TxD Interface Send Path

Output/Input programm

SSD Safety Output Signal Signal Output BLD+/- Ethernet Gigabit bidirect. data EN0#sez Encoder 0-pulse 0-0 (TTL)

RDY Ready

Ground Clock

IO-Link Power over Ethernet Safety Input

Contamination/Error Output Contamination/Error Output Input (analog or digital)

	PŤ	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)	
	nc	not connected	ENBR5422	Encoder B/B (TTL)	
	U	Test Input	ENa	Encoder A	
	Ū	Test Input inverted	ENв	Encoder B	
(NO)	W	Trigger Input	Amin	Digital output MIN	
(NC)	W -	Ground for the Trigger Input	Амах	Digital output MAX	
(NO)	0	Analog Output	Аок	Digital output OK	
(NC)	0-	Ground for the Analog Output	SY In	Synchronization In	
	BZ	Block Discharge	SY OUT	Synchronization OUT	
	Awv	Valve Output	OLT	Brightness output	
	а	Valve Control Output +	м	Maintenance	
	b	Valve Control Output 0 V	rsv	reserved	
	SY	Synchronization	Wire Co	olors according to DIN IEC 757	
	SY-	Ground for the Synchronization	BK	Black	
	E+	Receiver-Line	BN	Brown	
	S+	Emitter-Line	RD	Red	
	÷	Grounding	OG	Orange	
	SnR	Switching Distance Reduction	YE	Yellow	
	Rx+/-	Ethernet Receive Path	GN	Green	
	Tx+/-	Ethernet Send Path	BU	Blue	
	Bus	Interfaces-Bus A(+)/B(-)	VT	Violet	
	La	Emitted Light disengageable	GY	Grey	
	Mag	Magnet activation	WH	White	
line (A-D)	RES	Input confirmation		Pink	
	EDM	Contactor Monitoring	GNYE	Green/Yellow	

Output Graph

