

Reflex Sensors

for Contrast Detection

LASER

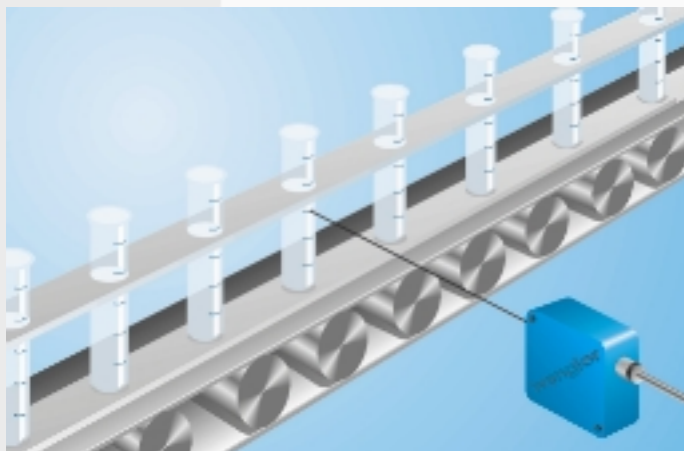
YP11VAH3ANZ

Part Number



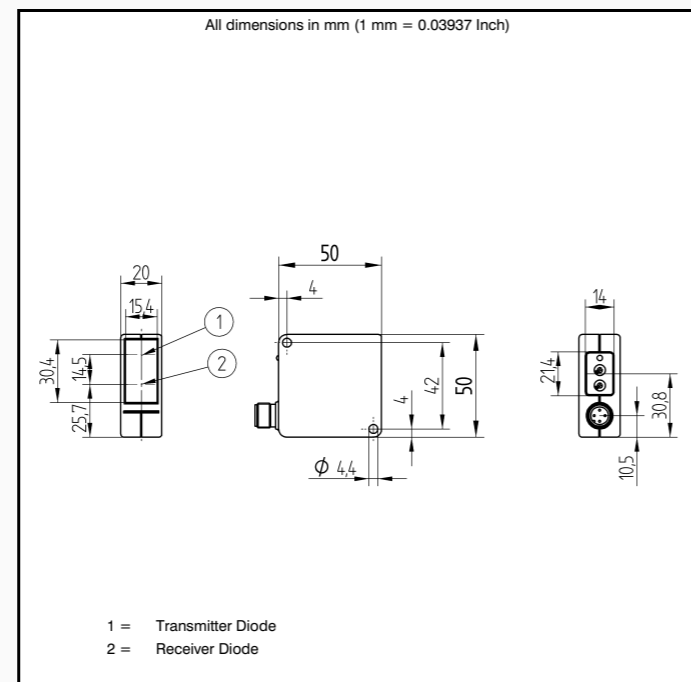
- Adjustable Time Delay
- Light spot can be focused
- Switching Frequency: 20 kHz

These sensors are especially well suited for high speed recognition of contrast differences.



Technical Data

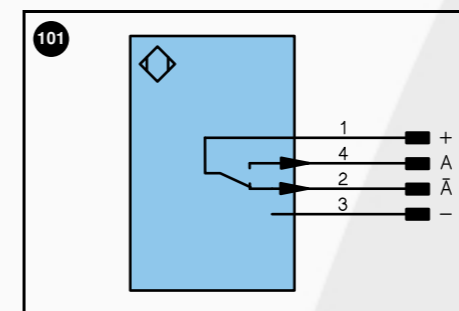
Optical Data	
Range	100 mm
Adjustable Range	60...100 mm
Switching Hysteresis (Lateral Approach)	< 50 μm
Light Source	Laser (red)
Wave Length	660 nm
Service Life (T = +25°C)	100000 h
Laser Protection Class (EN 60825-1)	2
max. Ambient Light	10000 Lux
Light Spot Diameter	0.8 mm
Electrical Data	
Supply Voltage	10...30 V DC
Current Consumption (U _b = 24V)	< 30 mA
Switching Frequency	20 kHz
Response Time	25 μs
ON-/OFF-Delay	ON-Delay
Time Delay	0...200 ms
Temperature Drift	< 1 %
Temperature Range	-10...60 °C
Switching Output Voltage Drop	< 2.5 V
PNP Switching Output/Switching Current	200 mA
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Mechanical Data	
Adjustment	Potentiometer
Housing	Plastic
Full Encapsulation	yes
Protection Mode	IP 65
Connection	M 12x1
Protective Insulation, Rated Voltage	50 V



Specifications are subject to change without notice
38/03



Plug Version	Part Number
PNP NO/NC antivalent	●
Connection Diagram No.	101
Control Panel No.	P 5
Suitable Plug No.	1



Legend		Wire colors according to DIN IEC 757
+	Power supply "+"	BK black
-	Power supply "0V"	BN brown
-	Power supply (AC Voltage)	RD red
A	Switching output (1,2,3...)/ NO	OG orange
A̅	Switching output (1,2,3...)/ NC	YE yellow
V	Contamination / Error output (NO)	GN green
V̅	Contamination / Error output (NC)	BU blue
E	Input (analog or digital)	VT violet
T	Teach input	GY grey
Z	Time delay (activation)	WH white
S	Shielding	PK pink
RxD	RS-232 receive path	GNYE green yellow
TxD	RS-232 send path	
U	Test input	
W	Trigger input	
O	Analog output (1,2,3,...)	
O-	Ground for the analog output	
BZ	Block discharge	
Aw	Valve output	
a	Valve control output "+"	
b	Valve control output "0V"	
SY	Synchronization	
E+	Receiver-Line	
S+	Emitter-Line	
⊕	Grounding	

Accessories

Mounting Bracket WP

Ctrl. Panel



- 01 = Switching Status Indicator
- 05 = Switching Distance Adjuster
- 11 = ON-Delay/ OFF-Delay Switch

Sensing Range Diagram

