

Reflex Sensors

for Contrast Detection

LASER

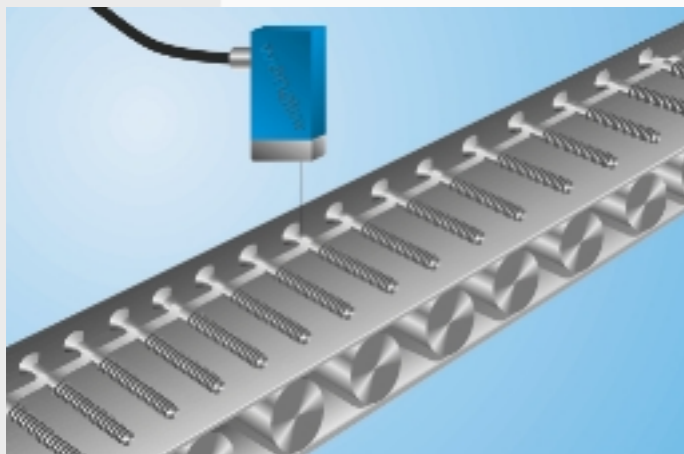
YM24PAH2ANZ

Part Number



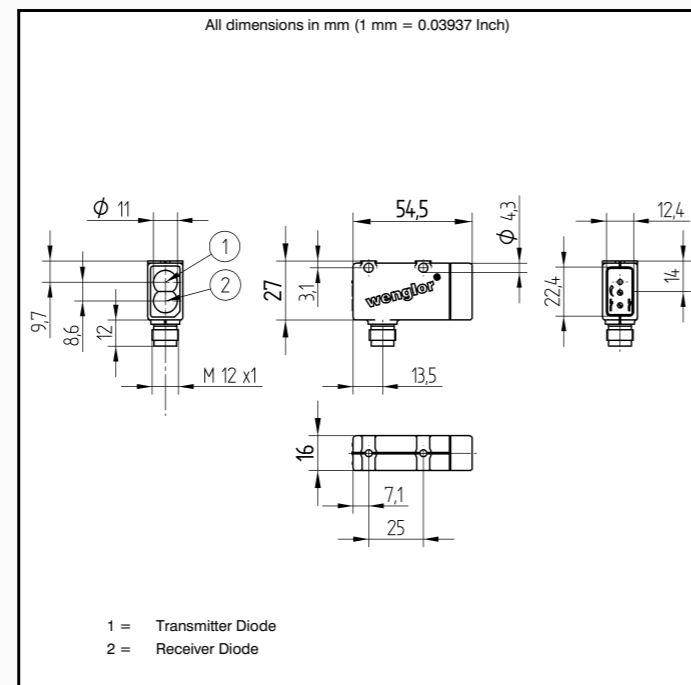
- High Switching Frequency
- Small Light Spot
- Time Delay can be activated

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



Technical Data

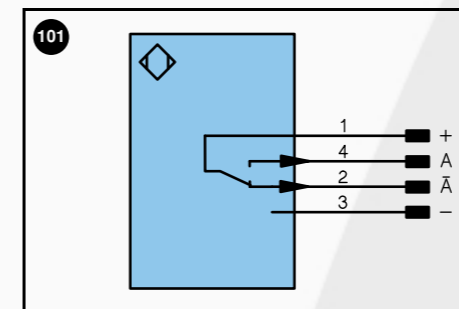
Optical Data	
Range	150 mm
Adjustable Range	60...150 mm
Switching Hysteresis (Lateral Approach)	< 50 μm
Light Source	Laser (red)
Wave Length	660 nm
Service Life (T = +25°C)	100000 h
Laser Protection Class (EN 60825-1)	2
max. Ambient Light	10000 Lux
Light Spot Diameter	1 mm
Electrical Data	
Supply Voltage	10...30 V DC
Current Consumption (U _b = 24V)	< 30 mA
Switching Frequency	3 kHz
Response Time	166 μs
Temperature Drift	< 5 %
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 67
Connection	M 12x1
Protective Insulation, Rated Voltage	50 V



Specifications are subject to change without notice
38/03



Plug Version	Part Number
YM24PAH2ANZ	YM24PAH2ANZ
PNP NO/NC antivalent	●
Connection Diagram No.	101
Control Panel No.	M 6
Suitable Plug No.	1

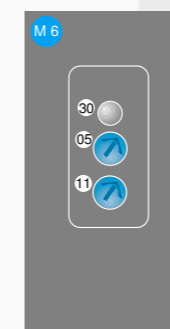


Legend		Wire colors according to DIN IEC 757
+	Power supply "+"	BK black
-	Power supply "0V"	BN brown
-	Power supply (AC Voltage)	RD red
A	Switching output (1,2,3...)/ NO	OG orange
A̅	Switching output (1,2,3...)/ NC	YE yellow
V	Contamination / Error output (NO)	GN green
V̅	Contamination / Error output (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	PNY pink yellow
TxD	RS-232 send path	GNYE green yellow
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 WM2

Ctrl. Panel



- 05 = Switching Distance Adjuster
- 11 = ON-Delay/ OFF-Delay Switch
- 30 = Switching Status/Contamination Warning