Contrast Sensor

YM24PAH2ABF LASER

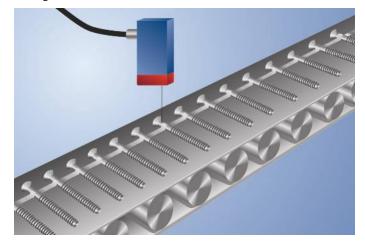
Part Number



- High switching frequency
- Small light spot
- Time delay can be activated

Technical Data

Optical Data					
Range	150 mm				
Adjustable Range	60150 mm				
Switching Hysteresis (Lateral Approach)	< 50 µm				
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	1 mm				
Electrical Data					
Supply Voltage	1030 V DC				
Current Consumption (Ub = 24 V)	< 30 mA				
Switching Frequency	3 kHz				
Response Time	166 <i>µ</i> s				
Off-Delay	5 ms				
Temperature Drift	< 5 %				
Temperature Range	-1060 °C				
Switching Output Voltage Drop	< 2,5 V				
PNP Switching Output/Switching Current	200 mA				
Short Circuit Protection	yes				
Reverse Polarity Protection	arity Protection yes				
Protection Class	III				
Mechanical Data					
Setting Method	Potentiometer				
Housing Material	Plastic				
Full Encapsulation	yes				
Degree of Protection	IP67				
Connection	M12 × 1; 4-pin				
PNP NO/NC antivalent					
Connection Diagram No.	101				
Control Panel No.	M6				
Suitable Connection Equipment No.	2				
Suitable Mounting Technology No.	360				



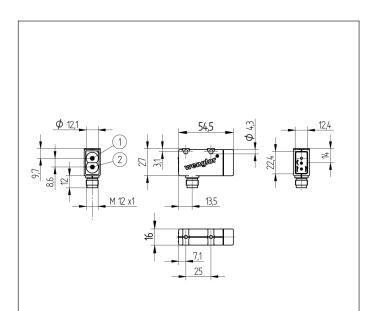
These sensors are especially well suited for high speed recognition of contrast differences.

Complementary Products

PNP-NPN Converter BG2V1P-N-2M Protective Housing ZSV-0x-01 Set Protective Housing ZSM-NN-02

Photoelectronic Sensors





Ctrl. Panel							

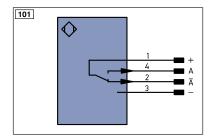
05 = Switching Distance Adjuster

11 = ON-Delay/OFF-Delay Adjuster

30 = Switching Status/Contamination Warning

- 1 = Transmitter Diode

2 = Receiver Diode All dimensions in mm (1 mm = 0.03937 Inch)



Legen	d		PT	Platinum measuring resistor	ENA	suz Encoder A/Ā (TTL)
+	Supply Voltage +		nc	not connected	ENB	Encoder B/B (TTL)
-	Supply Voltage 0 V		U	Test Input	ENA	Encoder A
~	Supply Voltage (AC Voltage)		Ū	Test Input inverted	ENв	Encoder B
А	Switching Output (NO)		W	Trigger Input	AMIN	Digital output MIN
Ā	Switching Output (NC)		W -	Ground for the Trigger Input	Ама	Digital output MAX
V	Contamination/Error Output (NO)		0	Analog Output	Аок	Digital output OK
V	Contamination/Error Output (NC)		0-	Ground for the Analog Output	SY I	Synchronization In
E	Input (analog or digital)		BZ	Block Discharge	SYC	UT Synchronization OUT
Т	Teach Input		Awv	Valve Output	OLT	Brightness output
Z	Time Delay (activation)		а	Valve Control Output +	м	Maintenance
S	Shielding		b	Valve Control Output 0 V	rsv	reserved
RxD	Interface Receive Path		SY	Synchronization	Wire	Colors according to DIN IEC 757
TxD	Interface Send Path		SY-	Ground for the Synchronization	BK	Black
RDY	Ready		E+	Receiver-Line	BN	Brown
GND	Ground		S+	Emitter-Line	RD	Red
CL	Clock		÷	Grounding	OG	Orange
E/A	Output/Input programmable		SnR	Switching Distance Reduction	YE	Yellow
0	IO-Link		Rx+/-	Ethernet Receive Path	GN	Green
PoE	Power over Ethernet		Tx+/-	Ethernet Send Path	BU	Blue
IN	Safety Input		Bus	Interfaces-Bus A(+)/B(-)	VT	Violet
OSSD	Safety Output		La	Emitted Light disengageable	GY	Grey
Signal	Signal Output		Mag	Magnet activation	WH	White
BI_D+/-	Ethernet Gigabit bidirect. data line (A	-D)	RES	Input confirmation	PK	Pink
ENO RS422	Encoder 0-pulse 0-0 (TTL)		EDM	Contactor Monitoring	GN	E Green/Yellow

