Print Mark Sensor



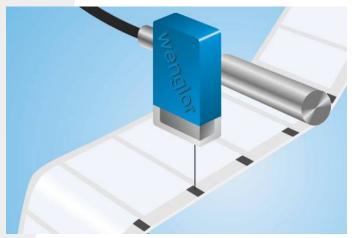
WM03PCT2

Part Number



- Compact Housing
- Small Light Spot
- Teach-In, external Teach-In, RS-232 Interface
- White Light for recognition of any print mark combinations

These sensors have been specially designed to recognize print marks. They have a very small spot and use a white light LED with long service life. Only one sensor is required for the recognition of all color combinations, as well as the difference in brightness between print marks and the background.



Technical Data

Optical Data				
Working Range	1218 mm			
Working Distance	15 mm			
Resolution	20 Gray Scale			
Switching Hysteresis	< 2 %			
Light Source	White Light			
Wave Length	400700 nm			
Service Life (T = +25 °C)	100000 h			
Max. Ambient Light	10000 Lux			
Light Spot Diameter	1,5 × 2,5 mm			
Electrical Data				
Supply Voltage	1030 V DC			
Current Consumption (Ub = 24 V)	< 30 mA			
Switching Frequency	5 kHz			
Response Time	100 μs			
On-/Off-Delay	20 ms			
On-/Off-Delay (RS-232)	02 s			
Temperature Drift	< 2 %			
Temperature Range	-2560 °C			
Switching Output Voltage Drop	< 2,5 V			
PNP Switching Output/Switching Current	200 mA			
Short Circuit Protection	yes			
Reverse Polarity Protection	yes			
Overload Protection	yes			
Lockable	yes			
Teach Mode	ZT,FT			
Protection Class	III			
Mechanical Data				
Adjustment	Teach-In			
Housing Material	erial Plastic			
Full Encapsulation	yes			
Degree of Protection	IP67			
Connection	M12 × 1; 4-pin			
PNP NO/NC switchable	•			
RS-232 with Adapterbox				
Connection Diagram No.	152			
Control Panel No.	M7			
Suiting Connection Technology No.	2			
Suiting Mounting Technology No.	360			



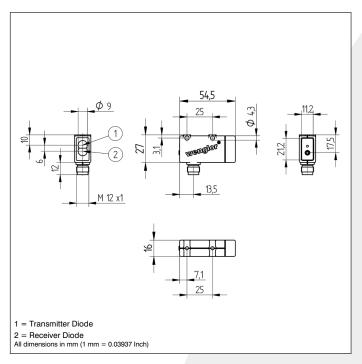


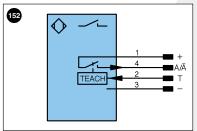












						~ -	Danier and Ethania	
+	Supply Voltage +		U	Test Input		PoE	Power over Ethernet	
-	Supply Voltage 0 V		Ū	Test Input inverted				
~	Supply Voltage (AC Voltage)		W	Trigger Input				
Α	Switching Output	(NO)	0	Analog Output		Wire Colors according to DIN IEC 757		
Ā	Switching Output	(NC)	0-	Ground for the Analog Output				
V	Contamination/Error Output	(NO)	BZ	Block Discharge				
⊽	Contamination/Error Output	(NC)	Awv	Valve Output		BK	Black	
E	Input (analog or digital)		а	Valve Control Output +		BN	Brown	
Т	Teach Input		b	Valve Control Output 0 V		RD	Red	
Z	Time Delay (activation)		SY	Synchronization		OG	Orange	
S	Shielding		E+	Receiver-Line		YE	Yellow	
RxD	Interface Receive Path		S+	Emitter-Line		GN	Green	
TxD	Interface Send Path		±	Grounding		BU	Blue	
RDY	Ready		SnR	Switching Distance Reduction		VT	Violet	
GND	Ground		Rx+/-	Ethernet Receive Path		GY	Grey	
CL	Clock		Tx+/-	Ethernet Send Path		WH	White	
E/A	Output/Input programmable		Bus	Interfaces-Bus A(+)/B(-)		PK	Pink	
0	IO-Link		La	Emitted Light disengageable		GNYE	Green Yellow	

Complementary Products

Adapterbox A232 Protection Housing Set ZSM-NN-02 Protection Housing ZSV-0x-01

Ctrl.Panel



01 = Switching Status Indicator 06 = Teach Button

Ideal Working Distance

