Print Mark Sensor



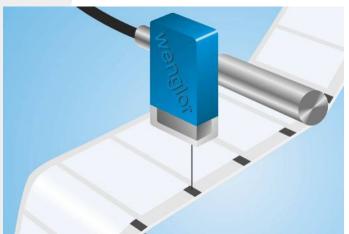
WM03NCT2

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.

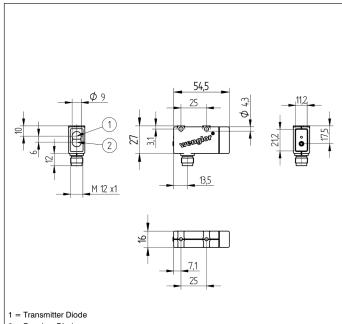


Technical Data

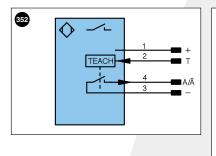
Optical Data			
Working Range	1218 mm		
Working Distance	15 mm		
Resolution	20 Gray Scale		
Switching Hysteresis	< 2 %		
Light Source	White Light		
Wave Length	400700 nm		
Service Life (T = $+25$ °C)	100000 h		
Max. Ambient Light	10000 Lux		
Light Spot Diameter	$1.5 \times 2.5 \text{ mm}$		
Electrical Data	1,5 × 2,5 mm		
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 Bange	-2560 °C		
Switching Output Voltage Drop	< 2,5 V		
NPN Switching Output/Switching Current	100 mA		
Short Circuit Protection	yes		
Reverse Polarity Protection	yes		
Overload Protection	yes		
Lockable	ves		
Teach Mode	ZT,FT		
Protection Class			
Mechanical Data			
Adjustment	Teach-In		
Housing Material	Plastic		
Full Encapsulation	yes		
Degree of Protection	IP67		
Connection	M12 × 1; 4-pin		
	wii2 ∧ i, i -piii		
NPN NO/NC switchable			
RS-232 with Adapterbox			
Connection Diagram No.	352		
Control Panel No.	<u>M7</u>		
Suiting Connection Technology No.	2		
Suiting Mounting Technology No.	360		







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

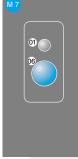


Lege	nd						
+	Supply Voltage +		U	Test Input	PoE	Power over Ethernet	
-	Supply Voltage 0 V		Ū	Test Input inverted			
~	Supply Voltage (AC Voltage)		W	Trigger Input			
A	Switching Output	(NO)	0	Analog Output	۱۸/:	Wire Colors according to DIN IEC 757	
Ā	Switching Output	(NC)	0-	Ground for the Analog Output			
V	Contamination/Error Output	(NO)	BZ	Block Discharge			
V	Contamination/Error Output	(NC)	Awv	Valve Output	BK	Black	
E	Input (analog or digital)		a	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	GN	E Green Yellow	

Complementary Products

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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

