

WM03PCT2

Part Number

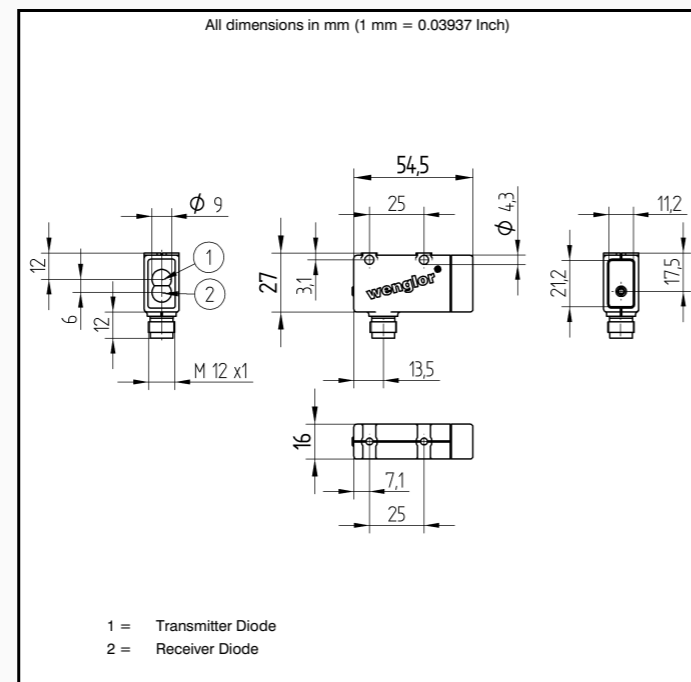
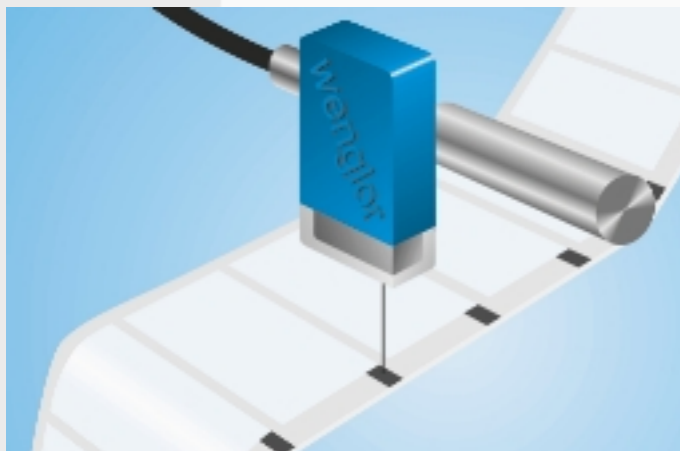


Technical Data

| Optical Data | |
|--|---------------|
| Working Range | 12...18 mm |
| Working Distance | 15 mm |
| Resolution | 20 Gray Scale |
| Switching Hysteresis | < 2 % |
| Light Source | White Light |
| Wave Length | 400...700 nm |
| Service Life (T = +25°C) | 100000 h |
| max. Ambient Light | 10000 Lux |
| Light Spot Size a (a x b) | 1.5 mm |
| Light Spot Size b (a x b) | 2.5 mm |
| Electrical Data | |
| Supply Voltage | 10...30 V DC |
| Current Consumption (U _b = 24V) | < 30 mA |
| Switching Frequency | 5 kHz |
| Response Time | 100 μs |
| Time Delay | 20 ms |
| Temperature Drift | < 2 % |
| Temperature Range | -25...60 °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 |
| Mechanical Data | |
| Adjustment | Teach-In |
| Housing | Plastic |
| Full Encapsulation | yes |
| Protection Mode | IP 67 |
| Connection | M 12x1 |
| Protective Insulation, Rated Voltage | 50 V |

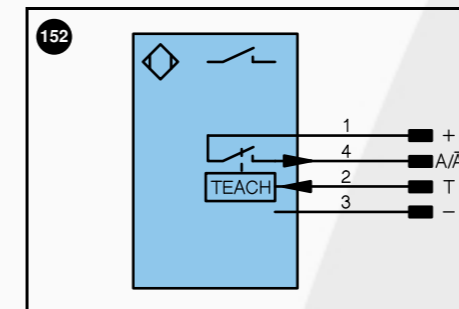
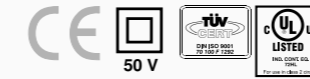
- Compact Housing
- Small Light Spot
- Teach-In, external Teach-In, RS-232 Interface
- White Light for recognition of any print mark combinations

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.



Specifications are subject to change without notice
18/03

| Part Number | Plug Version |
|------------------------|--------------|
| WM03PCT2 | |
| PNP NO/NC switchable | ● |
| RS-232 with Adapterbox | ● |
| Connection Diagram No. | 152 |
| Control Panel No. | M 7 |
| 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 |
| A | Switching output (1,2,3...)/ NC | YE yellow |
| V | Contamination / Error output (NO) | GN green |
| V | 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

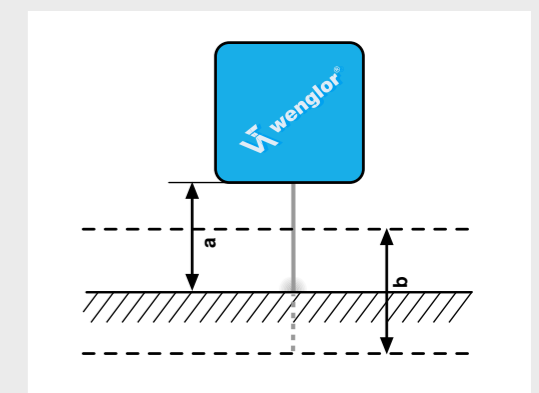
- Adapterbox A232
- Mounting Bracket WM2

Ctrl. Panel



01 = Switching Status Indicator
06 = Teach Button

Ideal Working Distance



a = Working Distance
b = Working Range