

TD11PA3

Part Number

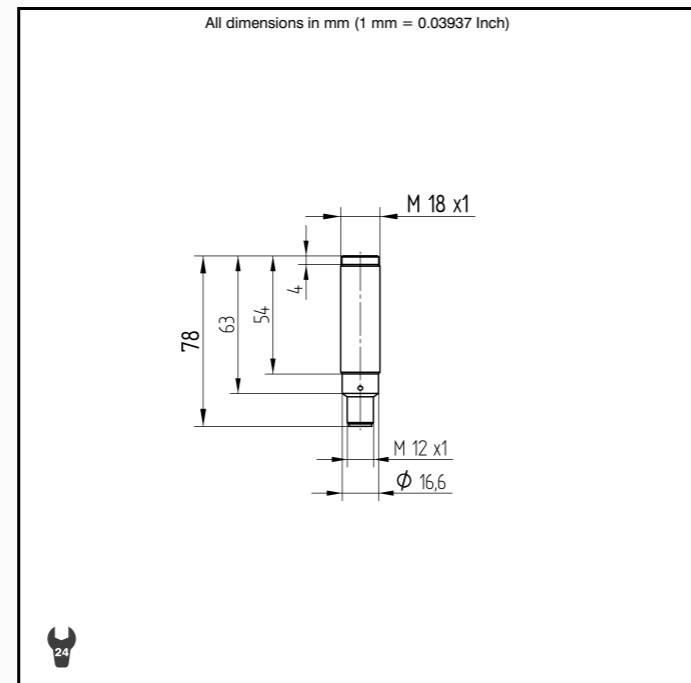
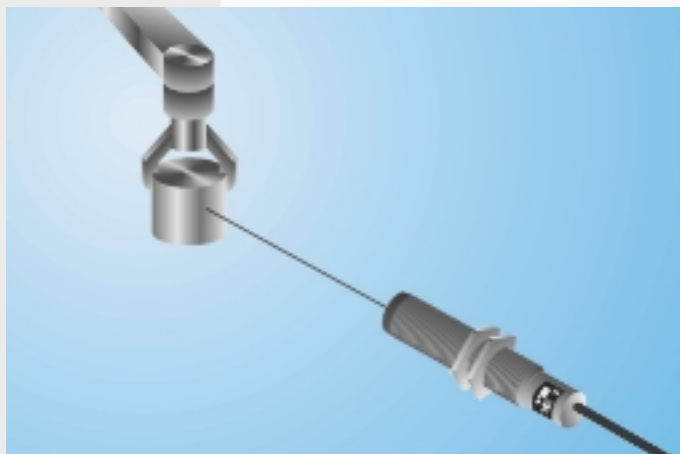


Technical Data

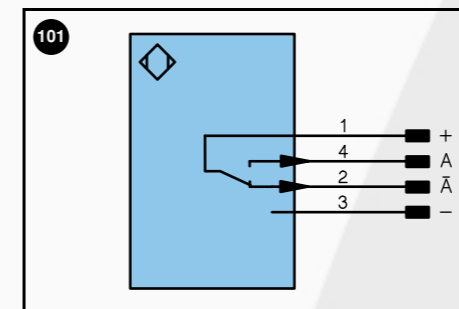
| Optical Data | |
|--|----------------|
| Range | 100 mm |
| Switching Hysteresis | < 15 % |
| Light Source | Infrared Light |
| Service Life (T = +25°C) | 100000 h |
| max. Ambient Light | 10000 Lux |
| Opening Angle | 12 ° |
| Electrical Data | |
| Supply Voltage | 10...30 V DC |
| Current Consumption (U _b = 24V) | < 40 mA |
| Switching Frequency | 1500 Hz |
| Response Time | 330 μs |
| Temperature Drift | < 10 % |
| Temperature Range | -25...60 °C |
| Switching Output Voltage Drop | < 2.5 V |
| PNP Switching Output/Switching Current | 200 mA |
| Residual Current Switching Output | < 50 μA |
| Short Circuit Protection | yes |
| Reverse Polarity Protection | yes |
| Overload Protection | yes |
| Mechanical Data | |
| Housing | BrasNicPlated |
| Full Encapsulation | yes |
| Protection Mode | IP 67 |
| Connection | M 12x1 |

- Focused Optics
- Low-Cost

The transmitter and the receiver are integrated into a single housing. The sensor evaluates transmitted light reflected back from the object. The output is switched as soon as an object passes the selected range. Bright objects reflect more light than dark objects, and can thus be recognized from greater distances.



| Part Number | Plug Version |
|------------------------|--------------|
| TD11PA3 | |
| PNP NO/NC antivalent | ● |
| Connection Diagram No. | 101 |
| Control Panel No. | D 2 |
| Suitable Plug No. | 1 |

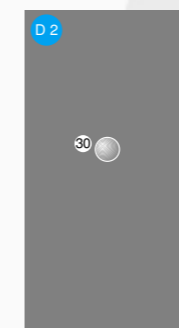


| Legend | | Wire colors according to DIN IEC 757 |
|--------|-----------------------------------|--------------------------------------|
| + | Power supply "+" | BK black |
| - | Power supply "0V" | BN brown |
| - | Power supply (AC Voltage) | RD red |
| A | Switching output (1,2,3...)/ NO | OG orange |
| 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 | 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

- Mounting Clamp BSM18B
- Mounting Bracket W18

Ctrl. Panel



30 = Switching Status/Contamination Warning