

Through Beam Sensors



ZD600NCT3

Part Number

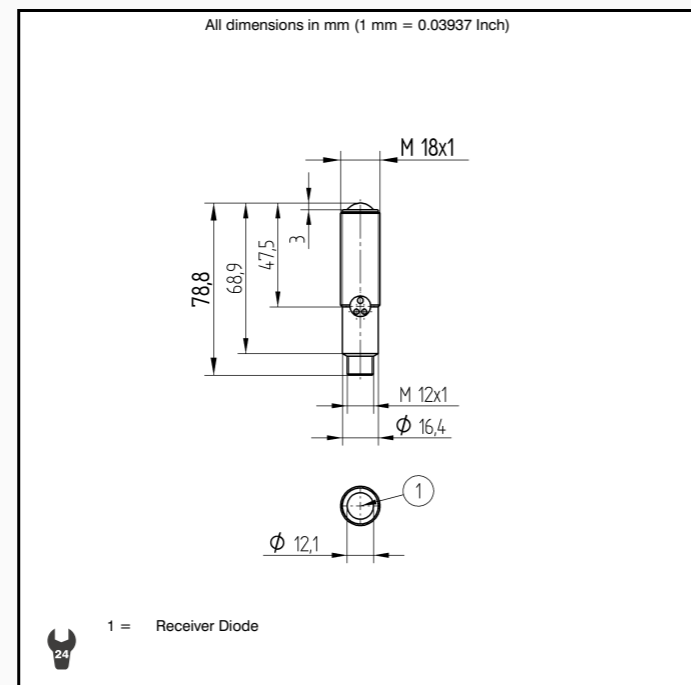
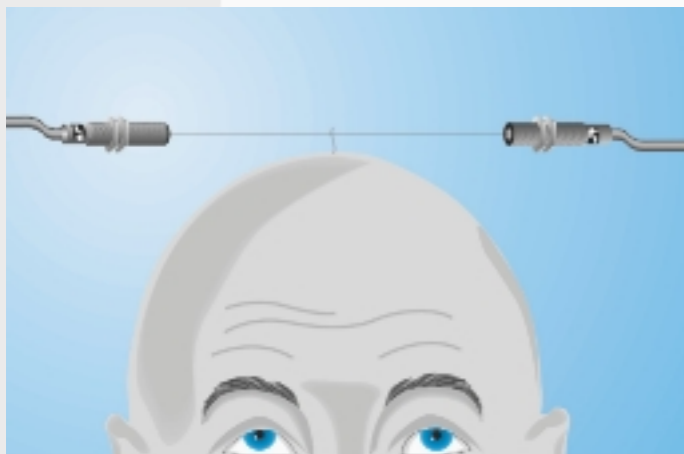


Technical Data

| Optical Data | |
|--|-----------------|
| Range | 60000 mm |
| Smallest Recognizable Part | > 50 μm |
| Switching Hysteresis | < 15 % |
| max. Ambient Light | 10000 Lux |
| Opening Angle | 12 ° |
| Electrical Data | |
| Sensor Type | Receiver |
| Supply Voltage | 10...30 V DC |
| Current Consumption (U _b = 24V) | < 15 mA |
| Switching Frequency | 5 kHz |
| Response Time | 100 μs |
| ON-/OFF-Delay | yes |
| Temperature Drift | < 10 % |
| Temperature Range | -25...60 °C |
| Switching Output Voltage Drop | < 2.5 V |
| Switching Output/Switching Current | 200 mA |
| Short Circuit Protection | yes |
| Reverse Polarity Protection | yes |
| Lockable | yes |
| Teach Mode | NT,MT |
| Mechanical Data | |
| Adjustment | Teach-In |
| Housing | Stainless Steel |
| Full Encapsulation | yes |
| Protection Mode | IP 67 |
| Connection | M 12x1 |
| Protective Insulation, Rated Voltage | 50 V |

- Range: 60 m
- Smallest Recognizable Part: 0.05 mm
- Teach-In, external Teach-In, RS-232 Interface

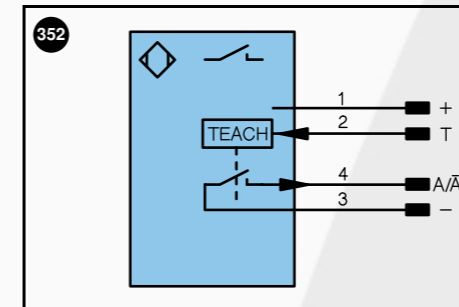
These through beam sensors are well suited for use in aggressive industrial environments. The sensor can be checked for correct functioning via the test input. Thanks to their large working range, the devices demonstrate excellent functional reliability in highly contaminated environments.



Specifications are subject to change without notice
41/03



| Part Number | Plug Version |
|------------------------|--------------|
| ZD600NCT3 | |
| NPN NO/NC switchable | ● |
| RS-232 with Adapterbox | ● |
| Connection Diagram No. | 352 |
| Control Panel No. | D 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 |
| 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

- Adapterbox A232
- Mounting Bracket W18 / W18L
- Additional Lens LA7

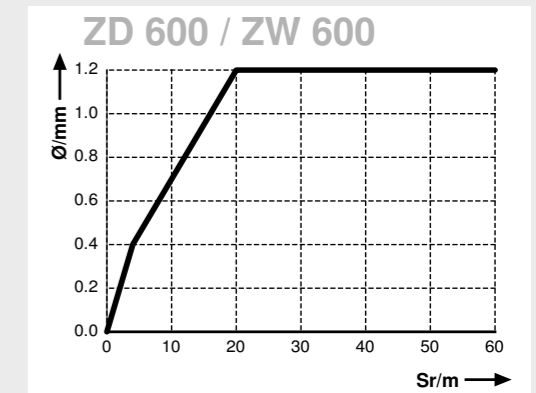
Ctrl. Panel



- 01 = Switching Status Indicator
- 02 = Contamination Warning
- 06 = Teach Button

Smallest Recognizable Part

Based on the Distance between Emitter and Receiver



Ø = Diameter, Smallest Recognizable Part
Sr = Switching Distance