

XN96VDH3

Part Number

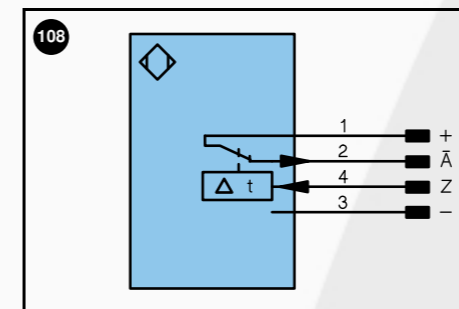


- Single-Lens Optic
- Smallest Recognizable Part: 0.25 mm
- Switching Frequency: 5 kHz
- Time Delay

Technical Data

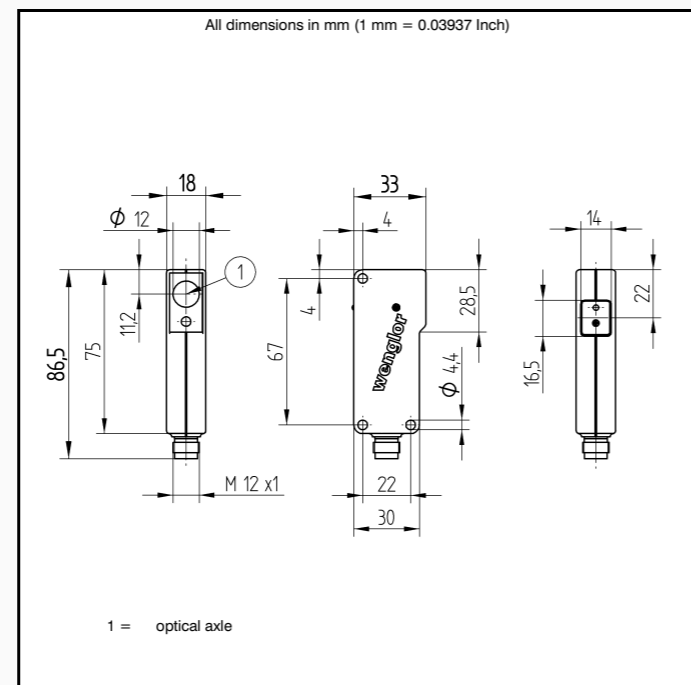
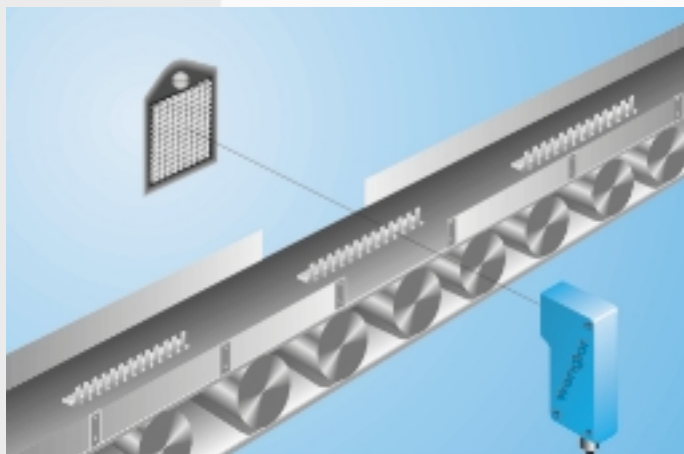
| Optical Data | |
|--|--------------|
| Range | 9000 mm |
| Reference Reflector | RQ100BA |
| max. Distance on Reflector | 0 mm |
| Smallest Recognizable Part | > 250 μm |
| Switching Hysteresis | < 15 % |
| Light Source | Laser (red) |
| Wave Length | 670 nm |
| Polarization Filter | yes |
| Service Life (T = +25°C) | 100000 h |
| Laser Protection Class (EN 60825-1) | 2 |
| max. Ambient Light | 10000 Lux |
| Opening Angle | 0.6 ° |
| 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 | < 10 % |
| 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 |
| Mechanical Data | |
| Housing | Plastic |
| Full Encapsulation | yes |
| Protection Mode | IP 67 |
| Connection | M 12x1 |
| Protective Insulation, Rated Voltage | 50 V |

| Plug Version | |
|------------------------|----------|
| Part Number | XN96VDH3 |
| PNP NC | ● |
| Connection Diagram No. | 108 |
| Control Panel No. | N 4 No2 |
| Suitable Plug No. | 1 |



| Legend | | | | |
|--------|-----------------------------------|------|------------------------------|--------------------------------------|
| + | Power supply "+" | U | Test input | Wire colors according to DIN IEC 757 |
| - | Power supply "0V" | W | Trigger input | |
| - | Power supply (AC Voltage) | O | Analog output (1,2,3,...) | |
| A | Switching output (1,2,3...)/ NO | O- | Ground for the analog output | |
| Ā | Switching output (1,2,3...)/ NC | BZ | Block discharge | |
| V | Contamination / Error output (NO) | Aw | Valve output | |
| ∇ | Contamination / Error output (NC) | a | Valve control output "+" | |
| E | Input (analog or digital) | b | Valve control output "0V" | |
| T | Teach input | SY | Synchronization | |
| Z | Time delay (activation) | E+ | Receiver-Line | |
| S | Shielding | S+ | Emitter-Line | |
| RxD | RS-232 receive path | ⊕ | Grounding | |
| TxD | RS-232 send path | BK | black | |
| | | BN | brown | |
| | | RD | red | |
| | | OG | orange | |
| | | YE | yellow | |
| | | GN | green | |
| | | BU | blue | |
| | | VT | violet | |
| | | GY | grey | |
| | | WH | white | |
| | | PK | pink | |
| | | GNYE | green yellow | |

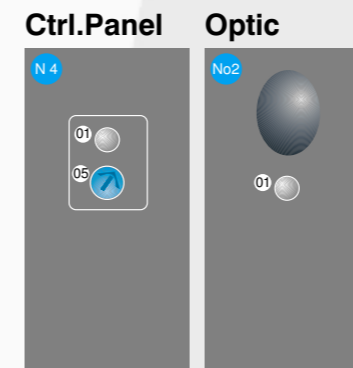
A reflector must be used in combination with these sensors. They can be installed in all kinds of industrial environments thanks to ample functional reserve. Even reflective objects can be reliably recognized through the use of polarized light.



Specifications are subject to change without notice
38/03

Accessories

Mounting Bracket WN
Reflector, Reflector Tape



01 = Switching Status Indicator
05 = Switching Distance Adjuster

Smallest Recognizable Part

