## P1KY006 <br> LASER



- 2 mutually independent switching outputs
- Interference-free towards gloss in the background with WinTec
- Miniature design
- No mutual interference with WinTec
- Reliable in case of glossy objects with WinTec
- Secure detection of black objects also in extremely inclined positions with WinTec

These miniature sensors determine distance between the sensor and the object by means of transit time measurement.
wenglor's interference-free technology (WinTec) is revolutionizing sensor technology: it prevents numerous sensors arranged directly opposite or next to each other from interfering with one another. The sensors reach a very high switching frequency and use laser class 1 , which is safe for the human eye.

'PNG// smart, WinTec

| Optical Data |  |
| :---: | :---: |
| Working Range | 0... 1000 mm |
| Adjustable Range | 100... 1000 mm |
| Switching Hysteresis | < 20 mm |
| Light Source | Laser (red) |
| Wavelength | 680 nm |
| Service Life ( $\mathrm{T}=+25^{\circ} \mathrm{C}$ ) | 100000 h |
| Laser Class (EN 60825-1) | 1 |
| Beam Divergence | < 16 mrad |
| Max. Ambient Light | 10000 Lux |
| Light Spot Diameter | see Table 1 |
| Triple Dot Laser | yes |
| Electrical Data |  |
| Supply Voltage | 10... 30 V DC |
| Supply Voltage with IO-Link | 18...30 V DC |
| Current Consumption ( $\mathrm{Ub}=24 \mathrm{~V}$ ) | $<30 \mathrm{~mA}$ |
| Switching Frequency | 500 Hz |
| Response Time | 1 ms |
| Temperature Drift ( $-10^{\circ} \mathrm{C}<\mathrm{Tu} \leq 50^{\circ} \mathrm{C}$ ) | <2\% |
| Temperature Drift (-40 ${ }^{\circ} \mathrm{C}<\mathrm{Tu} \leq 50^{\circ} \mathrm{C}$ ) | < 3 \% |
| Temperature Range | $-40 \ldots . .60^{\circ} \mathrm{C}$ |
| Number of Switching Outputs | 2 |
| Switching Output Voltage Drop | <2,5 V |
| Switching Output/Switching Current | 100 mA |
| Short Circuit Protection | yes |
| Reverse Polarity Protection | yes |
| Overload Protection | yes |
| Interface | IO-Link V1.1 |
| Protection Class | III |
| FDA Accession Number | 1620293-001 |
| Mechanical Data |  |
| Setting Method | Teach-In |
| Housing Material | Plastic |
| Optic Cover | PMMA |
| Degree of Protection | IP67 |
| Connection | M12 × 1; 4-pin |
| Cable Length | 200 mm |
| Safety-relevant Data |  |
| MTTFd (EN ISO 13849-1) | 1021,76 a |
| PNP NO |  |
| IO-Link |  |
| Connection Diagram No. | 223 |
| Control Panel No. | A23 |
| Suitable Connection Equipment No. | 2 |
| Suitable Mounting Technology No. | 400 |

* Temperature range with permanently installed cable, bending radius: $>20 \mathrm{~mm}$


## Complementary Products

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Ctrl. Panel
A 23

$06=$ Teach Button
$5 \mathrm{a}=$ Switching Status Display, O
68 = Supply Voltage Indicator
6a = Switching Status Display, O2

Table 1

| Working Distance | 100 mm | 500 mm | 1000 mm |
| :--- | ---: | ---: | ---: |
| Light Spot Diameter | 4 mm | 7 mm | 15 mm |

## Switching Distance Deviation

Typical characteristic curve based on white, $90 \%$ remission



[^0]:    IO-Link Master
    Software

