## Reflex Sensor

with Background Suppression

## YR24PCT2 LASER

Part Number


- Electronic background suppression
- Simple installation
- Spot diameter: 0,5 mm
- Teach-in, external teach-in

These sensors detect distance by measuring angles. They are particularly good at recognizing objects in front of any background. The color, shape and surface characteristics of the object have practically no influence on sensor switching performance. The sensor is easy to install with its integrated M18 threaded fixation, and can be easily protected as well.


## Technical Data

| Optical Data |  |
| :---: | :---: |
| Range | 150 mm |
| Adjustable Range | $35 . . .150 \mathrm{~mm}$ |
| Switching Hysteresis | < 10 \% |
| Light Source | Laser (red) |
| Wavelength | 655 nm |
| Service Life ( $\mathrm{T}=+25^{\circ} \mathrm{C}$ ) | 100000 h |
| Laser Class (EN 60825-1) | 2 |
| Max. Ambient Light | 10000 Lux |
| Light Spot Diameter | see Table 1 |
| Electrical Data |  |
| Supply Voltage | 10... 30 V DC |
| Current Consumption ( $\mathrm{Ub}=24 \mathrm{~V}$ ) | $<30 \mathrm{~mA}$ |
| Switching Frequency | 1100 Hz |
| Response Time | 455 ¢ |
| On-/Off-Delay (RS-232) | $0 . . .1 \mathrm{~s}$ |
| Temperature Drift | < 10 \% |
| Temperature Range | $-25 . . .60^{\circ} \mathrm{C}$ |
| 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 |
| Teach Mode | HT, VT |
| Protection Class | III |
| FDA Accession Number | 0820372-000 |
| Mechanical Data |  |
| Setting Method | Teach-In |
| Housing Material | Plastic |
| Full Encapsulation | yes |
| Degree of Protection | IP67 |
| Connection | M12 $\times 1 ; 4-\mathrm{pin}$ |
| PNP NO/NC switchable |  |
| RS-232 with Adapterbox |  |
| Connection Diagram No. | 152 |
| Control Panel No. | M3 |
| Suitable Connection Equipment No. | 2 |
| Suitable Mounting Technology No. | 150370 |

## Complementary Products

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Ctrl. Panel

$06=$ Teach Button
$30=$ Switching Status/Contamination Warning


Table 1

| Detection Range | 50 mm | 100 mm | 150 mm |
| :--- | ---: | ---: | ---: |
| Light Spot Diameter | $1,2 \mathrm{~mm}$ | $<0,5 \mathrm{~mm}$ | $1,5 \mathrm{~mm}$ |

## Switching Distance Deviation

Typical characteristic curve based on white, 90 \% remission



[^0]:    Adapterbox A232
    Dust Extraction Tube STAUBTUBUS-01
    PNP-NPN Converter BG2V1P-N-2M
    Software

