## Reflex Sensor

## OHM152B0002 <br> LASER

Part Number


- High switching frequency
- Special coated optics


## Technical Data

| Optical Data |  |
| :---: | :---: |
| Range | 150 mm |
| Adjustable Range | $35 . . .150 \mathrm{~mm}$ |
| Switching Hysteresis | 5 \% |
| Light Source | Laser (red) |
| Wavelength | 650 nm |
| Service Life ( $\mathrm{T}=+25^{\circ} \mathrm{C}$ ) | 100000 h |
| Laser Class (EN 60825-1) | 1 |
| Max. Ambient Light | 10000 Lux |
| Light Spot Diameter | 1 mm |
| at a Distance of | 120 mm |
| Electrical Data |  |
| Supply Voltage | 10... 30 V DC |
| Current Consumption ( $\mathrm{Ub}=24 \mathrm{~V}$ ) | < 20 mA |
| Switching Frequency | 1600 Hz |
| Response Time | $313 \mu \mathrm{~s}$ |
| Temperature Drift | < 5 \% |
| Temperature Range | $-25 . . .60{ }^{\circ} \mathrm{C}$ |
| Switching Output Voltage Drop | <2,5 V |
| PNP Switching Output/Switching Current | 200 mA |
| PNP Contamination Output/Switching Current | 50 mA |
| Short Circuit Protection | yes |
| Reverse Polarity Protection | yes |
| Overload Protection | yes |
| Protection Class | III |
| FDA Accession Number | 1120735-000 |
| Mechanical Data |  |
| Setting Method | Potentiometer |
| Housing Material | Plastic |
| Coated Optics | yes |
| Full Encapsulation | yes |
| Degree of Protection | IP67 |
| Connection | M12 $\times$ 1; 4-pin |
| Contamination Output |  |
| PNP NO |  |
| Connection Diagram No. | 103 |
| Control Panel No. | M4 |
| Suitable Connection Equipment No. | 2 |
| Suitable Mounting Technology No. | 360 |

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.


## Complementary Products

## PNP-NPN Converter BG2V1P-N-2M

Protective Housing ZSV-0x-01
Set Protective Housing ZSM-NN-02
wenglor
the innovative family


Ctrl. Panel


05 = Switching Distance Adjuster
$30=$ Switching Status/Contamination Warning


Sensing Range Diagram
Typical characteristic curve based on white, $90 \%$ remission
OHM152


