

Reflex Sensor with Background Suppression

OYKS934 LASER



- High switching frequency
- Laser light
- Low current consumption < 15 mA
- Miniature design

Optical Data

Range	80 mm
Adjustable Range	18...80 mm
Switching Hysteresis	< 10 %
Light Source	Laser (red)
Wavelength	655 nm
Service Life (T = +25 °C)	100000 h
Laser Class (EN 60825-1)	1
Max. Ambient Light	10000 Lux
Light Spot Diameter	see Table 1

Electrical Data

Supply Voltage	10...30 V DC
Current Consumption (U _b = 24 V)	< 15 mA
Switching Frequency	1900 Hz
Response Time	263 μs
Temperature Drift	< 5 %
Temperature Range	-40...60 °C
Switching Output Voltage Drop	< 2,5 V
PNP Switching Output/Switching Current	100 mA
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Protection Class	III
FDA Accession Number	1120743-000

Mechanical Data

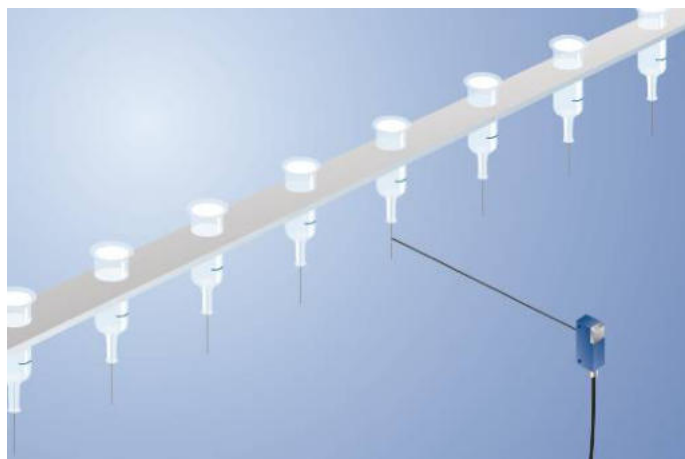
Setting Method	Potentiometer
Housing Material	Plastic
Full Encapsulation	yes
Degree of Protection	IP67
Connection	M12 × 1; 4-pin
Cable Length	200 mm

PNP NO/NC antivalent

Connection Diagram No.	101
Control Panel No.	K4
Suitable Connection Equipment No.	2
Suitable Mounting Technology No.	400

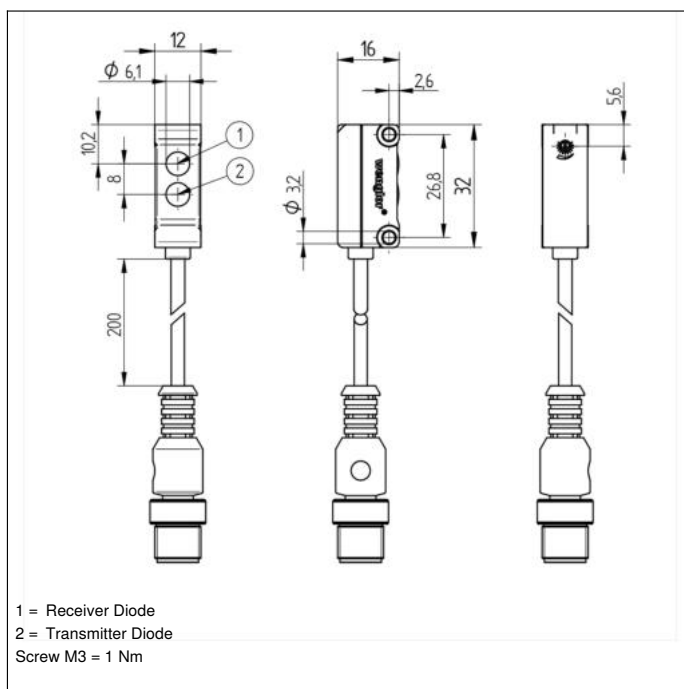
* Temperature range with permanently installed cable, bending radius: > 20 mm

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.

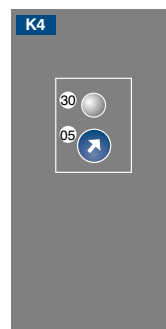


Complementary Products

PNP-NPN Converter BG7V1P-N-2M



Ctrl. Panel



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

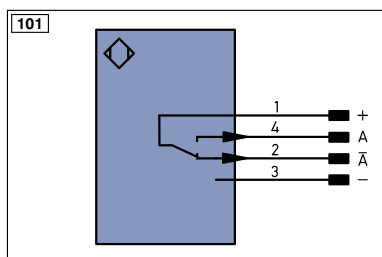
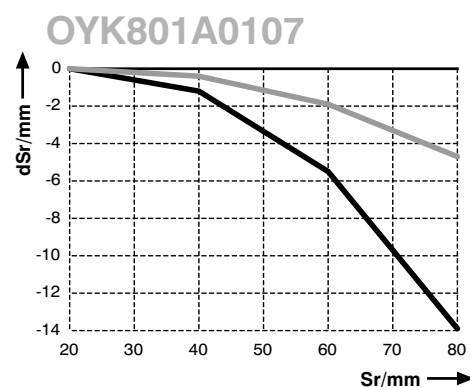


Table 1

Detection Range	40 mm	80 mm
Light Spot Diameter	1,5 mm	1 mm

Switching Distance Deviation

Typical characteristic curve based on white, 90 % remission



Sr = Switching Distance
dSr = Switching Distance Change

— black 6 % remission
— grey 18 % remission

