Reflex Sensor

OTDK502A0002

Part Number



- Adjustable detection range
- Clever inclusive mounting technology
- Large detection range
- Minimal installation space
- Simple installation

Technical Data

Optical Data		
Range	500 mm	
Switching Hysteresis	< 15 %	
Light Source	Infrared Light	
Service Life (T = +25 °C)	100000 h	
Max. Ambient Light	10000 Lux	
Opening Angle	5 °	
Light Spot Diameter	see Table 1	
Electrical Data		
Supply Voltage	1030 V DC	
Current Consumption (Ub = 24 V)	< 30 mA	
Switching Frequency	500 Hz	
Response Time	1 ms	
Temperature Drift	< 10 %	
Temperature Range	-2560 °C	
Switching Output Voltage Drop	< 2,5 V	
PNP Switching Output/Switching Current	200 mA	
Residual Current Switching Output	< 50 µA	
Short Circuit Protection	yes	
Reverse Polarity Protection	yes	
Overload Protection	yes	
Protection Class	III	
Mechanical Data		
Setting Method	Potentiometer	
Housing Material	Plastic	
Degree of Protection	IP67	
Connection	M12 × 1; 4-pin	
Scope of delivery	Mounting Console	
PNP NO/NC antivalent		
Connection Diagram No.	101	
Control Panel No.	DK1	
Suitable Connection Equipment No.	2	
Suitable Mounting Technology No.	150	

The transmitter and receiver in these sensors are located in a single housing. The sensor evaluates transmitted light reflected back from the object. The output is switched as soon as an object passes the selected range. Bright objects reflect more light than dark objects, and can thus be recognized from greater distances.



Complementary Products

Dust Extraction Tube STAUBTUBUS-01 PNP-NPN Converter BG2V1P-N-2M

Photoelectronic Sensors





Table 1

La

Mag RES

EDM

Input confirmation

Contactor Monitoring

Detection Range	100 mm	300 mm	500 mm
Light Spot Diameter	11 mm	26 mm	41 mm

VT

GY

WΗ White

Violet

Grev

PK Pink GNYE Green/Yellow



IN

Safety Input

BLD+/- Ethernet Gigabit bidirect. data line (A-D) ENorsez Encoder 0-pulse 0-0 (TTL)

OSSD Safety Output

Signal Signal Output

Specifications are subject to change without notice