Through-Beam Sensor

OEWK803A0002

Part Number



- Clever inclusive mounting technology
- Large working range
- Minimal installation space
- Simple installation
- Switching distance adjuster

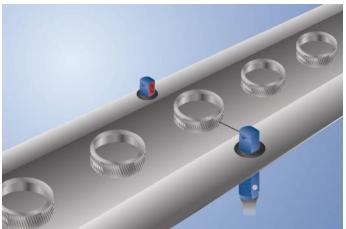
Technical Data

Tooliiiloui Butu							
Optical Data							
Range	8000 mm						
Switching Hysteresis	< 15 %						
Light Source	Red Light						
Service Life (T = +25 °C)	100000 h						
Max. Ambient Light	10000 Lux						
Opening Angle	4 °						
Electrical Data							
Sensor Type	Receiver						
Supply Voltage	1030 V DC						
Current Consumption (Ub = 24 V)	< 20 mA						
Switching Frequency	600 Hz						
Response Time	833 µs						
Temperature Drift	< 10 %						
Temperature Range	-2560 °C						
Switching Output Voltage Drop	< 2,5 V						
PNP Switching Output/Switching Current	100 mA						
Residual Current Switching Output	< 50 μA						
Short Circuit and Overload Protection	yes						
Reverse Polarity 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.	DK3						
Suitable Connection Equipment No.	2						
itable Mounting Technology No. 150							

Suitable Emitter

OSWK803Z0002

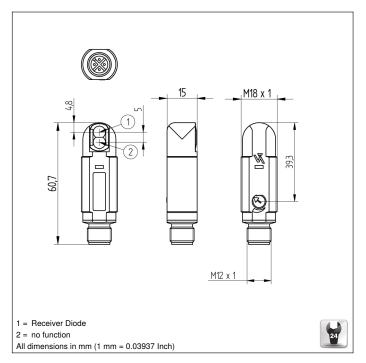
These through-beam sensors are best suited for use in industrial environments. Thanks to their large working range, the devices demonstrate excellent functional reliability in highly contaminated environments. The sensors can be checked for correct functioning via the test input.



Complementary Products

PNP-NPN Converter BG2V1P-N-2M

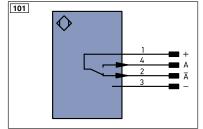




Ctrl. Panel



- 01 = Switching Status Indicator
- 05 = Switching Distance Adjuster 68 = Supply Voltage Indicator



Leg	end		PT	Platinum measuring resistor	ENARS	₂ Encoder A/Ā (TTL)	
+	Supply Voltage +		nc	not connected	ENBRS	Encoder B/B (TTL)	
_	Supply Voltage 0 V		U	Test Input	ENA	Encoder A	
~	Supply Voltage (AC Voltage)		Ū	Test Input inverted	ENB	Encoder B	
Α	Switching Output	(NO)	W	Trigger Input	Amin	Digital output MIN	
A	Switching Output	(NC)	W -	Ground for the Trigger Input	Амах	Digital output MAX	
V	Contamination/Error Output	(NO)	0	Analog Output	Аок	Digital output OK	
⊽		(NC)	0-	Ground for the Analog Output	SY In	Synchronization In	
E	Input (analog or digital)		BZ	Block Discharge	SY OU	T Synchronization OUT	
Т	Teach Input		Awv	Valve Output	OLT	Brightness output	
Z	Time Delay (activation)		а	Valve Control Output +	М	Maintenance	
S	Shielding		b	Valve Control Output 0 V	rsv	reserved	
RxD	Interface Receive Path	Interface Receive Path		Synchronization	Wire 0	Wire Colors according to DIN IEC 757	
TxD	Interface Send Path		SY-	Ground for the Synchronization	BK	Black	
RDY	Ready		E+	Receiver-Line	BN	Brown	
GND	Ground		S+	Emitter-Line	RD	Red	
CL	Clock		±	Grounding	OG	Orange	
E/A	Output/Input programmable		SnR	Switching Distance Reduction	YE	Yellow	
•	IO-Link		Rx+/-	Ethernet Receive Path	GN	Green	
PoE	Power over Ethernet		Tx+/-	Ethernet Send Path	BU	Blue	
IN	Safety Input		Bus	Interfaces-Bus A(+)/B(-)	VT	Violet	
OSS			La	Emitted Light disengageable	GY	Grey	
Sign	Signal Output		Mag	Magnet activation	WH	White	
BI_D	+/- Ethernet Gigabit bidirect. data	line (A-D)	RES	Input confirmation	PK	Pink	
	suz Encoder 0-pulse 0-0 (TTL)		EDM	Contactor Monitoring	GNYE	Green/Yellow	









