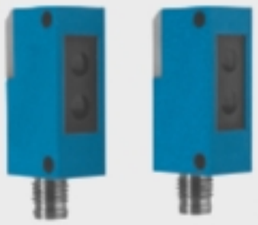
Through Beam Sensors

LASER

ZK1008

Part Number

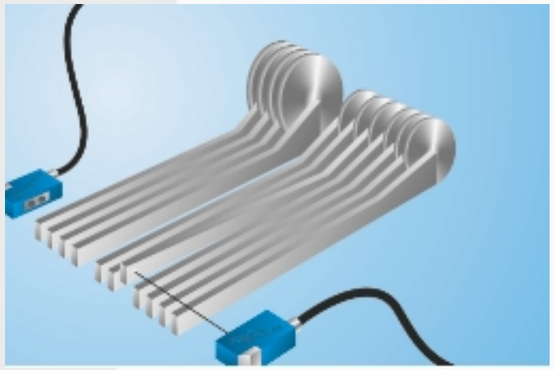


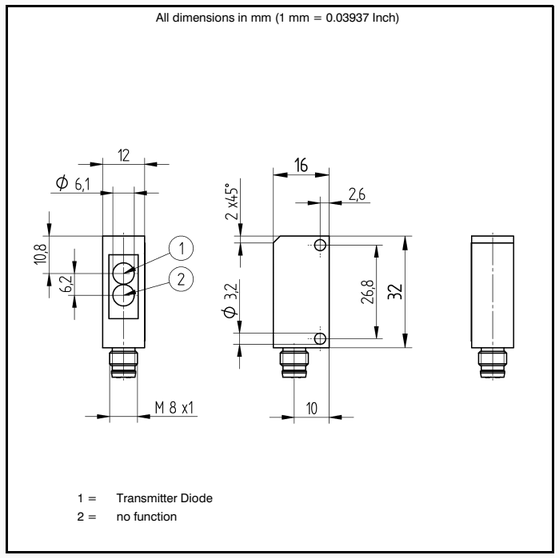
- **Miniature Design**
- **Rugged design with full encapsulation**
- **Suitable for use as a muting barrier**
- **Test Input**

Technical Data

Optical Data	
Range	10000 mm
Light Source	Laser (red)
Wave Length	655 nm
Service Life (T = +25°C)	100000 h
Laser Protection Class (EN 60825-1)	2
Beam Divergence	10 mrad
Focus Distance	800 mm
Electrical Data	
Sensor Type	Emitter
Supply Voltage	10...30 V DC
Current Consumption (Ub = 24V)	< 40 mA
Temperature Drift	< 10 %
Temperature Range	-25...60 °C
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Test input	PNP
Mechanical Data	
Housing	Plastic
Full Encapsulation	yes
Protection Mode	IP 67
Connection	M 8x1
Protective Insulation, Rated Voltage	50 V

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

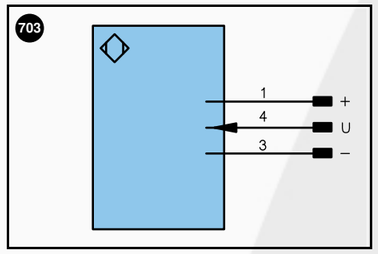




Specifications are subject to change without notice
18/03

Plug Version

Part Number	ZK1008
Connection Diagram No.	703
Control Panel No.	K3
Suitable Plug No.	



Legend

+	Power supply "+"	U	Test input	BK	black
–	Power supply "0V"	W	Trigger input	BN	brown
~	Power supply (AC Voltage)	O	Analog output (1,2,3,...)	RD	red
A	Switching output (1,2,3...) / NO	O–	Ground for the analog output	OG	orange
Ā	Switching output (1,2,3...) / NC	BZ	Block discharge	YE	yellow
V	Contamination / Error output (NO)	AW	Valve output	GN	green
V̄	Contamination / Error output (NC)	a	Valve control output "+"	BU	blue
E	Input (analog or digital)	b	Valve control output "0V"	VT	violet
T	Teach input	SY	Synchronization	GY	grey
Z	Time delay (activation)	E+	Receiver-Line	WH	white
S	Shielding	S+	Emitter-Line	PK	pink
RxD	RS-232 receive path	⏚	Grounding	GNYE	green yellow
TxD	RS-232 send path				

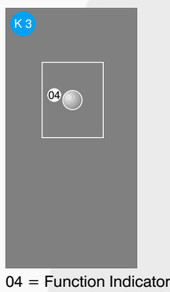
Wire colors according to DIN IEC 757

Accessories

Fixation System WKS12

Mounting Bracket WK

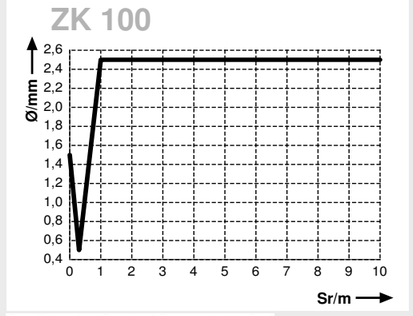
Ctrl.Panel



04 = Function Indicator

Smallest Recognizable Part

Based on the Distance between Emitter and Receiver



Ø = Diameter, Smallest Recognizable Part

Sr = Switching Distance