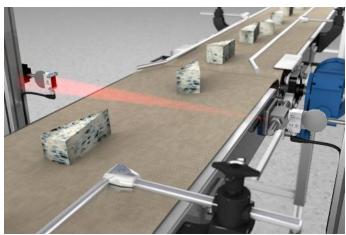
Through-Beam Sensor



Wenglor

- Condition monitoring
- High light intensity with large switching reserve
- Robust stainless steel housing with IP69K
- Test input for high operational reliability

The through-beam sensor works with red light as well as a transmitter and a receiver. Thanks to their high light intensity, the sensor provides a high degree of operational reliability even with interferences like steam, fog or dust. The transmitter can be deactivated using test input in order to test the functionality of the through-beam sensor. The IO-Link interface can be used to configure the sensor (PNP/NPN, NC/NO, switching distance), as well as for reading out switching statuses and signal values. The robust V4A (1.4404/316L) stainless steel housing is resistant to oils and coolants, as well as cleaning agent.



Technical Data

Optical Data			
Range	6000 mm		
Light Source	Red Light		
Service Life (T = +25 °C)	100000 h		
Light Spot Diameter	see Table 1		
Electrical Data			
Sensor Type	Emitter		
Supply Voltage	1030 V DC		
Current Consumption (Ub = 24 V)	< 20 mA		
Temperature Drift	< 10 %		
Temperature Range	-4060 °C		
Reverse Polarity Protection	yes		
Lockable	yes		
Test input	yes		
Protection Class	111		
Mechanical Data			
Housing Material	Stainless steel 316L		
Degree of Protection	IP68/IP69K		
Connection	M8 × 1; 3-pin		
Optic Cover	PMMA		
Ecolab	yes		
Safety-relevant Data			
MTTFd (EN ISO 13849-1)	2986,76 a		
Connection Diagram No.	703		
Control Panel No.	1K2		
Suitable Connection Equipment No.	8		
Suitable Mounting Technology No.	400		

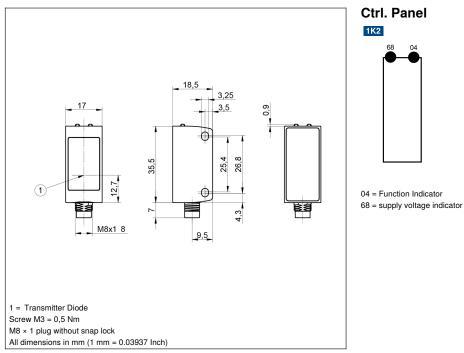
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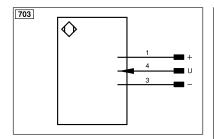
Suitable Receiver

P2KE004 P2KE009

Photoelectronic Sensors







Legend							
+	Supply Voltage +	nc	Not connected	ENBRS422	Encoder B/B (TTL)		
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A		
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	ENв	Encoder B		
A	Switching Output (NO)	W	Trigger Input	Amin	Digital output MIN		
Ā	Switching Output (NC)	VV-	Ground for the Trigger Input	Amax	Digital output MAX		
V	Contamination/Error Output (NO)	0	Analog Output	Аок	Digital output OK		
V	Contamination/Error Output (NC)	0-	Ground for the Analog Output	SY In	Synchronization In		
E	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization OUT		
Т	Teach Input	Amv	Valve Output	Olt	Brightness output		
Z	Time Delay (activation)	а	Valve Control Output +	M	Maintenance		
S	Shielding	b	Valve Control Output 0 V	rsv	Reserved		
RxD	Interface Receive Path	SY	Synchronization	Wire Colo	Wire Colors according to DIN IEC 60757		
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	<u> </u>	Grounding	OG	Orange		
E/A	Output/Input programmable	SnR	Switching Distance Reduction	YE	Yellow		
\odot	IO-Link	Rx+/-	Ethernet Receive Path	GN	Green		
PoE	ower over Ethernet	Tx+/-	Ethernet Send Path	BU	Blue		
IN	Safety Input	Bus	Interfaces-Bus A(+)/B(-)	VT	Violet		
OSSD	Safety Output	La	Emitted Light disengageable	GY	Grey		
Signal	Signal Output	Mag	Magnet activation	WH	White		
BI_D+/-	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation	PK	Pink		
EN0 RS422	Encoder 0-pulse 0/0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow		
PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)				

04

Table 1

Working Distance	1 m	2 m	6 m
Light Spot Diameter	70 mm	140 mm	500 mm



Specifications are subject to change without notice