Through-Beam Sensor

ZW2003

Part Number



LASER

Laser light

Test input

Technical Data

Optical Data			
Range	20000 mm		
Light Source	Laser (red)		
Wavelength	655 nm		
Service Life (T = +25 °C)	100000 h		
Laser Class (EN 60825-1)	2		
Beam Divergence	10 mrad		
Electrical Data			
Sensor Type	Emitter		
Supply Voltage	1030 V DC		
Current Consumption (Ub = 24 V)	< 15 mA		
Temperature Drift	< 10 %		
Temperature Range	-2560 °C		
Reverse Polarity Protection	yes		
Protection Class	III		
FDA Accession Number	0820360-000		
Mechanical Data			
Housing Material	Stainless Steel		
Full Encapsulation	yes		
Degree of Protection	IP67		
Connection	M12 × 1; 4-pin		
Connection Diagram No.	1018		
Suitable Connection Equipment No.	2		
Suitable Mounting Technology No.	150		

Suitable Receiver

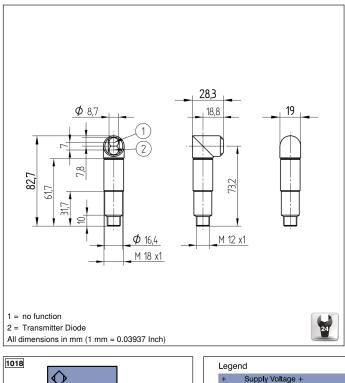
ZW200NCT3 ZW200PCT3

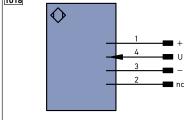
These through-beam sensors are best suited for use in industrial environments. Thanks to their large working range, the devices demonstrate excellent functional reliability in highly contaminated environments. The sensors can be checked for correct functioning via the test input.



Photoelectronic Sensors



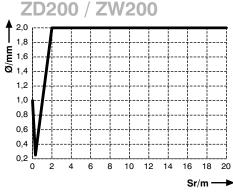




Legen	d	ΡŤ	Platinum measuring resistor	ENAR5622	Encoder A/Ā (TTL)	
+	Supply Voltage +	nc	not connected	ENBR5422		
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A	
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	ENв	Encoder B	
А	Switching Output (NO)	W	Trigger Input	Amin	Digital output MIN	
Ā	Switching Output (NC)	W -	Ground for the Trigger Input	Амах	Digital output MAX	
V	Contamination/Error Output (NO)	0	Analog Output	Аок	Digital output OK	
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	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	SY	Synchronization	Wire Co	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	
0	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	
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	

Smallest Recognizable Part

Based on the Distance between Emitter and Receiver





Ø = Diameter, Smallest Recognizable Part

