Through-Beam Sensor

ZD600PCVT3

Part Number

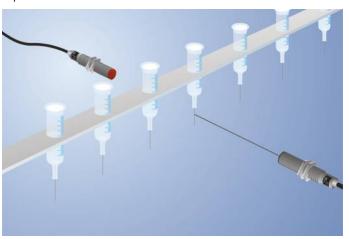


Range: 60 m

Smallest recognizable part: 0,05 mm

Teach-in

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.



Technical Data

recillical Data				
Optical Data				
Range	60000 mm			
Smallest Recognizable Part	50 <i>μ</i> m			
Switching Hysteresis	Hysteresis < 15 %			
Light Source	Laser (red)			
Service Life (T = +25 °C)	100000 h			
Max. Ambient Light	10000 Lux			
Opening Angle	12 °			
Electrical Data				
Sensor Type	Receiver			
upply Voltage 1030 V DC				
Current Consumption (Ub = 24 V)	< 15 mA			
Switching Frequency	5 kHz			
Response Time	100 <i>μ</i> s			
Temperature Drift	< 10 %			
Temperature Range	-2560 °C			
Switching Output Voltage Drop	< 2,5 V			
Switching Output/Switching Current	200 mA			
Short Circuit and Overload Protection	yes			
Reverse Polarity Protection	yes			
Teach Mode	NT, MT			
Protection Class	III			
Mechanical Data				
Setting Method	od Teach-In			
Housing Material	Stainless Steel			
Full Encapsulation	yes			
Degree of Protection	IP67			
Connection	M12 × 1; 4-pin			
Safety-relevant Data				
MTTFd (EN ISO 13849-1)	2413,71 a			
Contamination Output				
PNP NO/NC switchable				
Connection Diagram No.	154			
Control Panel No.	D7			
Suitable Connection Technology No.	2			
Suitable Mounting Technology No.	150			

Suitable Emitter

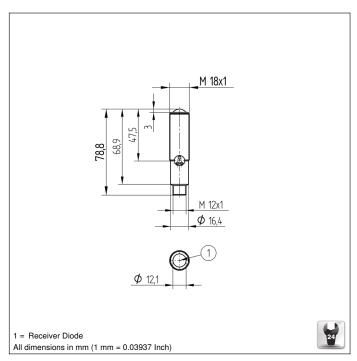
ZD6003

Complementary Products

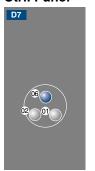
Dust extraction tube STAUBTUBUS-01 Lens LA7

PNP-NPN Converter BG2V1P-N-2M

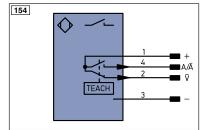




Ctrl. Panel



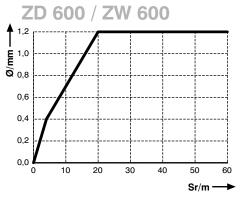
- 01 = Switching Status Indicator
- 02 = Contamination Warning
- 06 = Teach Button



eger	10	PT	Platinum measuring resistor	ENA	Encoder A
+	Supply Voltage +	nc	not connected	ENB	Encoder B
-	Supply Voltage 0 V	U	Test Input	Amin	Digital output MIN
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	Амах	Digital output MAX
Α	Switching Output (NO)	W	Trigger Input	Аок	Digital output OK
Ā	Switching Output (NC)	0	Analog Output	SY In	Synchronization In
٧	Contamination/Error Output (NO)	0-	Ground for the Analog Output	SY OUT	
V	Contamination/Error Output (NC)	BZ	Block Discharge	OLT	Brightness output
E	Input (analog or digital)	Awv	Valve Output	М	Maintenance
Т	Teach Input	а	Valve Control Output +		
Z	Time Delay (activation)	b	Valve Control Output 0 V		
S	Shielding	SY	Synchronization		Colors according to
RxD	Interface Receive Path	E+	Receiver-Line	DIN IEC 757	
TxD	Interface Send Path	S+	Emitter-Line	BK	Black
RDY	Ready	=	Grounding	BN	Brown
GND	Ground	SnR	Switching Distance Reduction	RD	Red
CL	Clock	Rx+/-	- Ethernet Receive Path	OG	Orange
E/A	Output/Input programmable	Tx+/-	- Ethernet Send Path	YE	Yellow
0	IO-Link	Bus	Interfaces-Bus A(+)/B(-)	GN	Green
PoE	Power over Ethernet	La	Emitted Light disengageable	BU	Blue
IN	Safety Input	Mag	Magnet activation	VT	Violet
OSSD	Safety Output	RES	Input confirmation	GY	Grey
Signal	Signal Output	EDM	Contactor Monitoring	WH	White
BI_D+/-	- Ethernet Gigabit bidirect. data line (A-D)	ENARS42	2 Encoder A/Ā (TTL)	PK	Pink
ENors42	Encoder 0-pulse 0-0 (TTL)	ENBRS42	Encoder B/B (TTL)	GNYE	Green/Yellow

Smallest Recognizable Part

Based on the Distance between Emitter and Receiver





Ø = Diameter, Smallest Recognizable Part





