

Through Beam Sensors



ZD200PCVT3

Part Number

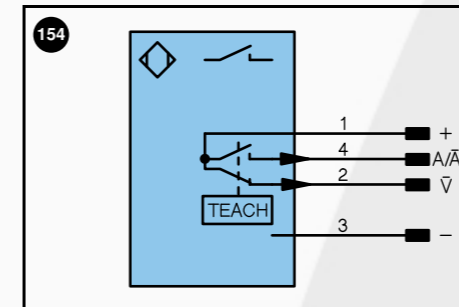


- **Smallest Recognizable Part: 0.25 mm**
- **Teach-In**
- **Time Delay**

Technical Data

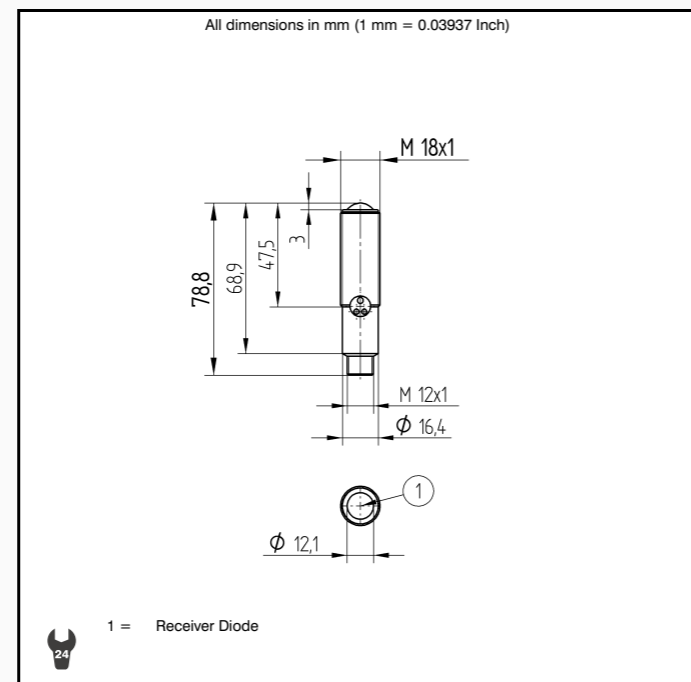
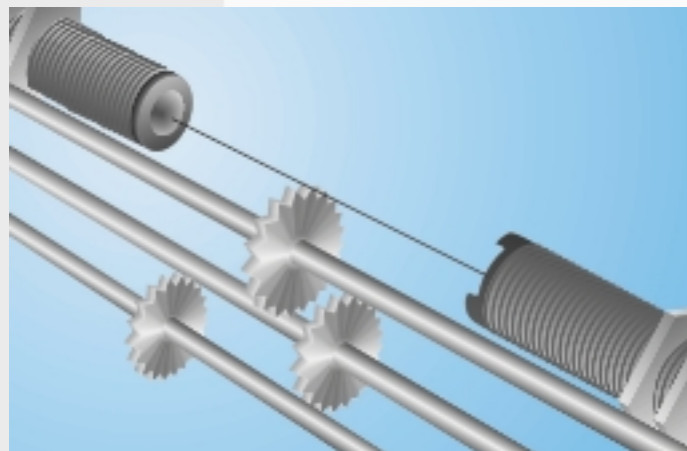
Optical Data	
Range	20000 mm
Smallest Recognizable Part	> 250 μm
Switching Hysteresis	< 15 %
max. Ambient Light	10000 Lux
Opening Angle	12 °
Electrical Data	
Sensor Type	Receiver
Supply Voltage	10...30 V DC
Current Consumption (U _b = 24V)	< 15 mA
Switching Frequency	3 kHz
Response Time	166 μs
ON-/OFF-Delay	yes
Temperature Drift	< 10 %
Temperature Range	-25...60 °C
Switching Output Voltage Drop	< 2.5 V
Switching Output/Switching Current	200 mA
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Teach Mode	NT,MT
Mechanical Data	
Adjustment	Teach-In
Housing	Stainless Steel
Full Encapsulation	yes
Protection Mode	IP 67
Connection	M 12x1
Protective Insulation, Rated Voltage	50 V

Part Number	Plug Version
ZD200PCVT3	
Contamination Output	●
PNP NO/NC switchable	●
Connection Diagram No.	154
Control Panel No.	D.7
Suitable Plug No.	1



Legend		Wire colors according to DIN IEC 757
+	Power supply "+"	BK black
-	Power supply "0V"	BN brown
~	Power supply (AC Voltage)	RD red
A	Switching output (1,2,3...)/ NO	OG orange
A	Switching output (1,2,3...)/ NC	YE yellow
V	Contamination / Error output (NO)	GN green
V	Contamination / Error output (NC)	BU blue
E	Input (analog or digital)	VT violet
T	Teach input	GY grey
Z	Time delay (activation)	WH white
S	Shielding	PK pink
RxD	RS-232 receive path	GNYE green yellow
TxD	RS-232 send path	
U	Test input	
W	Trigger input	
O	Analog output (1,2,3,...)	
O-	Ground for the analog output	
BZ	Block discharge	
Aw	Valve output	
a	Valve control output "+"	
b	Valve control output "0V"	
SY	Synchronization	
E+	Receiver-Line	
S+	Emitter-Line	
⊕	Grounding	

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.



Accessories

- Mounting Bracket W18 / W18L
- Additional Lens LA7

Ctrl. Panel

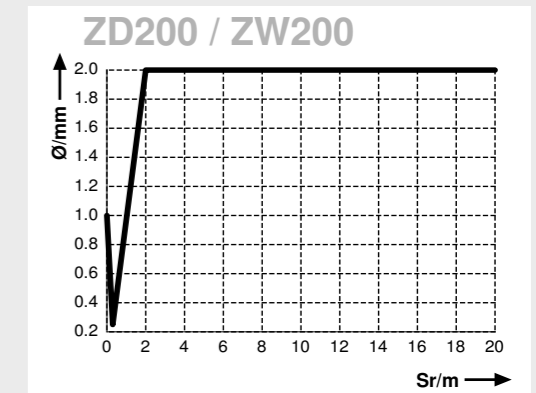


- 01 = Switching Status Indicator
- 02 = Contamination Warning
- 06 = Teach Button



Smallest Recognizable Part

Based on the Distance between Emitter and Receiver



Ø = Diameter, Smallest Recognizable Part
Sr = Switching Distance