## **Through-Beam Sensor**

# **SN2003**

Part Number



- Glass lenses
- Test input

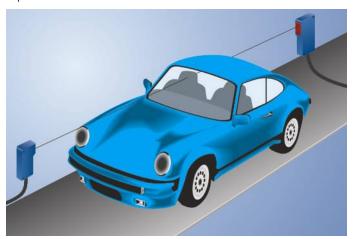
#### **Technical Data**

Optical Data							
Range	20000 mm						
Light Source	Red Light						
Service Life (T = +25 °C)	100000 h						
Opening Angle	4 °						
Electrical Data							
Sensor Type	Emitter						
Supply Voltage	1030 V DC						
Current Consumption (Ub = 24 V)	< 20 mA						
Temperature Drift	< 10 %						
Temperature Range	-2560 °C						
Reverse Polarity Protection	yes						
Protection Class	III						
Mechanical Data							
Housing Material	Plastic						
Full Encapsulation	yes						
Degree of Protection	IP67						
Connection	M12 × 1; 4-pin						
Connection Diagram No.	1018						
Control Panel No.	K3 No3						
Suitable Connection Equipment No.	2						
Suitable Mounting Technology No.	350						

#### **Suitable Receiver**

EN200PA3

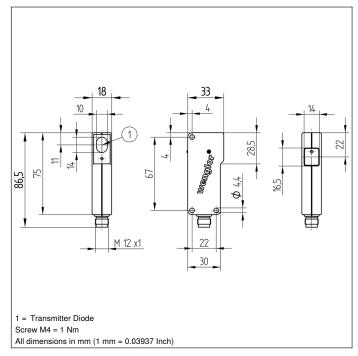
These through-beam sensors are best suited for use in industrial environments. Thanks to their large working range, the devices demonstrate excellent functional reliability in highly contaminated environments. The sensors can be checked for correct functioning via the test input.



### **Complementary Products**

Dust Extraction Tube STAUBTUBUS-03 Set Protective Housing ZSN-NN-02



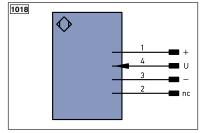


Ctrl. Panel





04 = Function Indicator



Legen	ıd		D.T.	Distance	EN	Freedow A/Ā (TTI.)
Logon				Platinum measuring resistor		₂ Encoder A/Ā (TTL)
+	Supply Voltage +		nc	not connected		Encoder B/B (TTL)
_	Supply Voltage 0 V		U	Test Input	ENA	Encoder A
~	Supply Voltage (AC Voltage)		Ū	Test Input inverted	ENB	Encoder B
Α		10)		Trigger Input	Amin	Digital output MIN
Ā		1C)	W -	Ground for the Trigger Input	Амах	Digital output MAX
V		10)	0	Analog Output	Аок	Digital output OK
V	Contamination/Error Output (N	1C)	0-	Ground for the Analog Output	SY In	Synchronization In
E	Input (analog or digital)		BZ	Block Discharge	SY OU	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 0	olors 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		<b>±</b>	Grounding	OG	Orange
E/A	Output/Input programmable		SnR	Switching Distance Reduction	YE	Yellow
•	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 lin	ne (A-D)	RES	Input confirmation	PK	Pink
ENors42	Encoder 0-pulse 0-0 (TTL)		EDM	Contactor Monitoring	GNYE	Green/Yellow







