Through-Beam Sensor

SO953N

Part Number



Technical Data

Optical Data							
Range	5000 mm						
Light Source	Red Light						
Service Life (T = +25 °C)	100000 h						
Opening Angle	8 °						
Electrical Data							
Sensor Type	Emitter						
Supply Voltage	1030 V DC						
Current Consumption (Ub = 24 V)	< 40 mA						
Temperature Drift	< 10 %						
Temperature Range	-1060 °C						
Reverse Polarity Protection	yes						
Protection Class	III						
Mechanical Data							
Housing Material	CuZn, nickel-plated						
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.	170						

Suitable Receiver

EO95TB3N EO95VB3N EO95VD3N

Red light

Test input

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 Path-Folding Mirror LA9

Photoelectronic Sensors







Legen	ld	P.	Т	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)		
+	Supply Voltage +	nc	;	not connected	ENBR542	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		
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	Z	Block Discharge	SY OUT	Synchronization OUT		
Т	Teach Input	A	NN	Valve Output	OLT	Brightness output		
Z	Time Delay (activation)	a		Valve Control Output +	м	Maintenance		
S	Shielding	b		Valve Control Output 0 V	rsv	reserved		
RxD	Interface Receive Path	S		Synchronization	Wire Co	Wire Colors according to DIN IEC 757		
TxD	Interface Send Path	S	Y-	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	Sr	nR	Switching Distance Reduction	YE	Yellow		
۲	IO-Link	R)	x+/-	Ethernet Receive Path	GN	Green		
PoE	Power over Ethernet	T	x+/-	Ethernet Send Path	BU	Blue		
IN	Safety Input	Bu	JS	Interfaces-Bus A(+)/B(-)	VT	Violet		
OSSD	Safety Output	La	a	Emitted Light disengageable	GY	Grey		
Signal	Signal Output	Ma	ag	Magnet activation	WH	White		
BI_D+/-	Ethernet Gigabit bidirect. data line			Input confirmation	PK	Pink		
ENO RS42	Encoder 0-pulse 0-0 (TTL)	EC	Эм	Contactor Monitoring	GNYE	Green/Yellow		

