High-Performance Distance Sensor

OCP662X0135

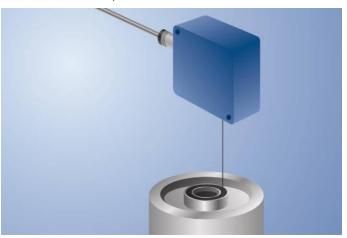
LASER

Part Number



- CMOS line array
- Highly accurate switching distance
- Minimal switching hysteresis
- Switching point independent of material, color and brightness

These sensors work with a high-resolution CMOS line and DSP technology and determine distance using angular measurement. As a result, material, color and brightness related switching point differences are virtually eliminated. Two independent switching outputs are available, at which two switching thresholds and one on or off-delay time (in 10 ms steps) can be configured. Sensor functions can be activated, and scanning results can be acquired via the RS-232 interface.



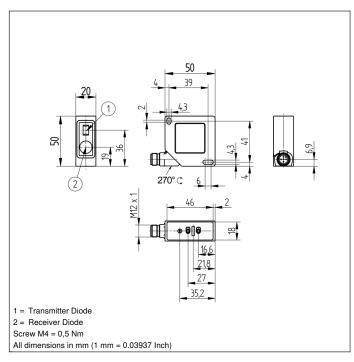
Technical Data

Optical Data	
Range	660 mm
Adjustable Range	60660 mm
Switching Hysteresis	< 1 %
Light Source	Laser (red)
Wave Length	655 nm
Service Life (T = +25 °C)	100000 h
Laser Class (EN 60825-1)	1
Max. Ambient Light	10000 Lux
Spot Diameter	see Table 1
Electrical Data	
Supply Voltage	1030 V DC
Current Consumption (Ub = 24 V)	< 50 mA
Switching Frequency	100 Hz
Response Time	< 5 ms
On-/Off-Delay (RS-232)	01 s
Temperature Drift	< 50 μm/K
Temperature Range	-2560 °C
Switching Outputs	2
Switching Output Voltage Drop	< 1,5 V
Switching Output/Switching Current	200 mA
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Teach Mode	HT, VT, FT, TP
Baud Rate	9600 Bd
Protection Class	III
FDA Accession Number	1120728-000
Mechanical Data	
Setting Method	Teach-In
Housing Material	Plastic
Degree of Protection	IP67
Connection	M12 × 1; 4/5-pin
Error Output	
Configurable as PNP/NPN/Push-Pull	
Switchable to NC/NO	Ŏ
RS-232 with Adapterbox	Ď
External teach-in input	Ŏ
Connection Diagram No.	779
Control Panel No.	P8
Suitable Connection Technology No.	2 35
Suitable Mounting Technology No.	380

Complementary Products

Complementary i roducts	
Adapterbox A232	
Protection Housing Set ZSP-NN-02	
Protection Housing ZSV-0x-01	
wTeach2 software DNNF005	

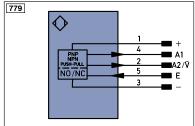




Ctrl. Panel



- 01 = Switching Status Indicator
- 03 = Error Indicator
- 07 = Selector Switch
- 24 = Plus Button
- 25 = Minus Button



_eger	10		PT	Platinum measuring resistor	ENA	Encoder A
+	Supply Voltage +		nc	not connected	ENв	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 (f	VO)	W	Trigger Input	Аок	Digital output OK
Ā	Switching Output (f	VC)	0	Analog Output	SY In	Synchronization In
V	Contamination/Error Output (VO)	0-	Ground for the Analog Output	SY OUT	Synchronization OUT
V	Contamination/Error Output ()	VC)	BZ	Block Discharge	OLT	Brightness output
E	Input (analog or digital)		Awv	Valve Output	М	Maintenance
Т	Teach Input		a	Valve Control Output +		
Z	Time Delay (activation)		b	Valve Control Output 0 V		
S	Shielding		SY	Synchronization	Wire Colors according to DIN IEC 757	
RxD	Interface Receive Path		E+	Receiver-Line		
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
•	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			EDM	Contactor Monitoring	WH	White
BI_D+/-	- Ethernet Gigabit bidirect. data li	ne (A-D)	ENARS422	Encoder A/Ā (TTL)	PK	Pink
	2 Encoder 0-pulse 0-0 (TTL)	, ,		Encoder B/B (TTL)	GNYE	Green/Yellow

Table 1

Detection Range	60 mm	660 mm
Spot Size	0,5 x 1,2 mm	2 x 5,5 mm









