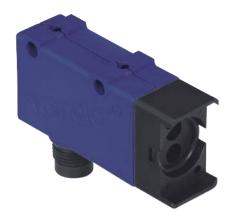
Fiber-Optic Cable Sensor

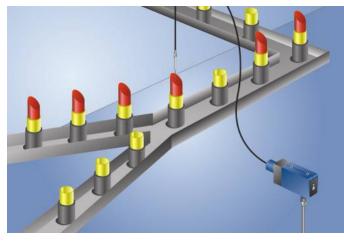
OUM502C0002

Part Number



- Compact housing
- IO-Link interface
- Teach-in, external teach-in

These sensors are equipped for use with glass fiber optic cables but can be used with or without one. The transmitter and receiver are located in a single housing. The sensor evaluates transmitted light reflected back from the object and the output is switched as soon as an object passes the selected range. Bright objects reflect more light than dark objects, and can thus be recognized from greater distances.



Technical Data

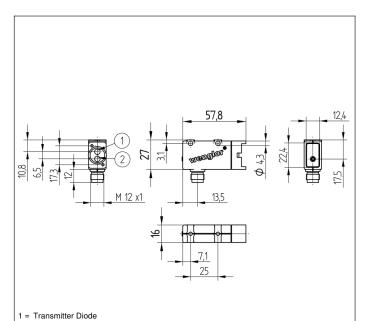
loominoul Duta							
Optical Data							
Range	500 mm						
Switching Hysteresis	< 10 %						
Light Source	Infrared Light						
Wavelength	875 nm						
Service Life (T = +25 °C)	100000 h						
Max. Ambient Light	10000 Lux						
Opening Angle	12 °						
Electrical Data							
Supply Voltage	1830 V						
Current Consumption (Ub = 24 V)	< 30 mA						
Switching Frequency	2500 Hz						
Response Time	200 <i>µ</i> s						
On-/Off-Delay	060 s						
Temperature Drift	< 10 %						
Temperature Range	-2560 °C						
Switching Output Voltage Drop	< 2,5 V						
PNP Switching Output/Switching Current	100 mA						
Residual Current Switching Output	< 50 µA						
Short Circuit Protection	yes						
Reverse Polarity Protection	yes						
Overload Protection	yes						
Teach Mode	NT, MT						
Interface	IO-Link V1.0						
Protection Class	Ш						
Mechanical Data							
Setting Method	Teach-In						
Housing Material	Plastic						
Full Encapsulation	yes						
Degree of Protection	IP67						
Connection	M12 × 1; 4-pin						
IO-Link							
PNP NO/NC switchable	Ŏ						
Connection Diagram No.	179						
Control Panel No.	M3						
Suitable Connection Equipment No.	2						
Suitable Mounting Technology No.	360						
Suitable Fiber-Optic Cable Adapter No.	02						

Complementary Products

Glass Fiber-Optic Cable IO-Link Master PNP-NPN Converter BG2V1P-N-2M Software

Photoelectronic Sensors



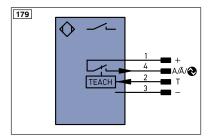




06 = Teach Button

30 = Switching Status/Contamination Warning

- 2 = Receiver Diode
- Screw M4 = 1 Nm
- All dimensions in mm (1 mm = 0.03937 Inch)



Legen	d		PŤ	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)	
+	Supply Voltage +		nc	not connected	ENBR5422	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	Block Discharge	SY OUT	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 Co	Wire Colors 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		÷	Grounding	OG	Orange	
E/A	Output/Input programmable		SnR	Switching Distance Reduction	YE	Yellow	
۲	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	line (A-D)	RES	Input confirmation	PK	Pink	
ENO RS42	Encoder 0-pulse 0-0 (TTL)	. ,	EDM	Contactor Monitoring	GNYE	Green/Yellow	

