Reflex Sensor

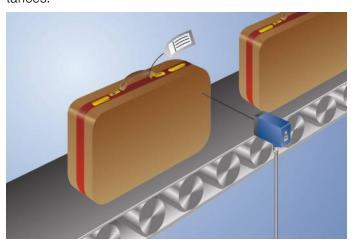
OTM502C0002

Part Number



- Compact housing
- IO-Link interface
- Large detection range
- Teach-in, external teach-in

The transmitter and receiver in these sensors are located in a single housing. The sensor evaluates transmitted light reflected back from the object. 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.



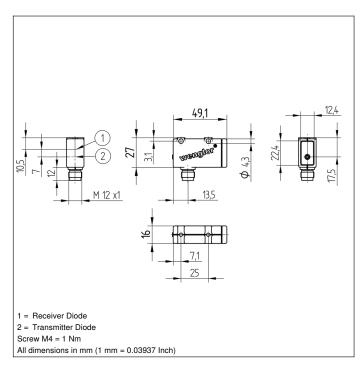
Technical Data

Optical Data				
Range	500 mm			
Switching Hysteresis	< 10 %			
Light Source	Infrared Light			
Wavelength	850 nm			
Service Life (T = +25 °C)	100000 h			
Max. Ambient Light	100000 H			
<u> </u>	12 °			
Opening Angle Electrical Data	12			
Supply Voltage	1830 V			
	< 30 mA			
Current Consumption (Ub = 24 V)				
Switching Frequency	2500 Hz			
Response Time	200 μs			
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			
Lockable	yes			
Teach Mode	NT, MT			
Interface	IO-Link V1.0			
IO-Link Parameter	12			
Protection Class	III			
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				
Connection Diagram No.	179			
Control Panel No.	M3			
Suitable Connection Equipment No.	2			
Suitable Mounting Technology No.	360			

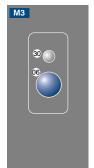
Complementary Products

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IO-Link Master	
PNP-NPN Converter BG2V1P-N-2M	
Software	



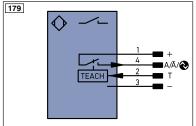


Ctrl. Panel



06 = Teach Button

30 = Switching Status/Contamination Warning



Legen	ıd		PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)	
+	Supply Voltage +		nc	not connected	ENBRS422		
-	Supply Voltage 0 V		U	Test Input	ENA	Encoder A	
~	Supply Voltage (AC Voltage)		Ū	Test Input inverted	ENB	Encoder B	
Α	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		
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	e 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	
•	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	
ENors422	Encoder 0-pulse 0-0 (TTL)		EDM	Contactor Monitoring	GNYE	Green/Yellow	











