Reflex Sensor

T1FL06VB

Part Number

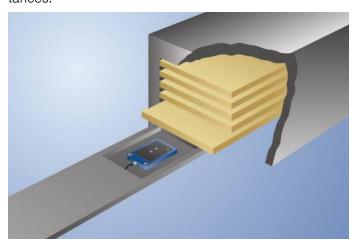


- Especially suitable in applications where only minimal space is available
- Integrated output

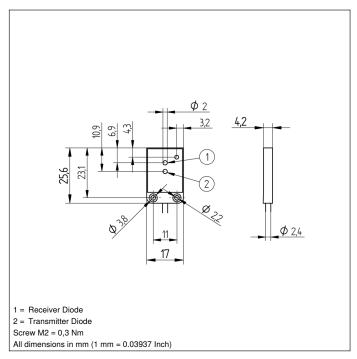
Technical Data

recillical Data					
Optical Data					
Range	60 mm				
Switching Hysteresis	< 15 %				
Light Source	Infrared Light				
Service Life (T = +25 °C)	100000 h				
Max. Ambient Light	10000 Lux				
Opening Angle	25 °				
Electrical Data					
Supply Voltage	1030 V DC				
Current Consumption (Ub = 24 V)	< 30 mA				
Switching Frequency	2 kHz				
Response Time	250 μs				
Temperature Drift	< 10 %				
Temperature Range	-2560 °C				
Switching Output Voltage Drop	< 2,5 V				
PNP Switching Output/Switching Current	ing Current 100 mA				
Residual Current Switching Output < 50 µA					
Short Circuit Protection yes					
Reverse Polarity Protection	yes				
Overload Protection	yes				
Protection Class	III				
Mechanical Data					
Housing Material	Plastic				
Degree of Protection	IP67				
Connection	Cable, 3-wire, 2 m				
PNP NO	•				
Connection Diagram No.	202				
Control Panel No.	Lo1				

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.

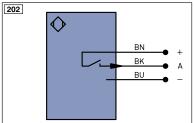








01 = Switching Status Indicator



Legen	id		PT	Platinum measuring resistor	ENARSA	₂ Encoder A/Ā (TTL)
+	Supply Voltage +		nc	not connected	EN _{BRS4}	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	Switching Output	(NO)	W	Trigger Input	Amin	Digital output MIN
Ā	Switching Output	(NC)	W -	Ground for the Trigger Input	Амах	Digital output MAX
٧	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 OU	Synchronization OUT
Т	Teach Input		AMV	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 C	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		±	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







