with Increased Switching Distance

I1CH002

Part Number



- Increased switching distance
- Innovative ASIC circuit technology
- Integrated error display
- Minimal mounting clearance thanks to wenglor weproTec

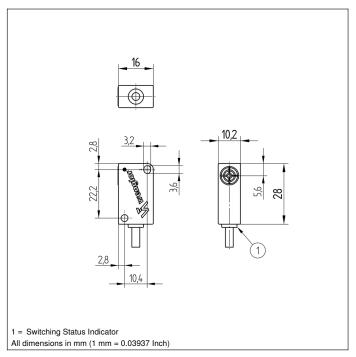
**Technical Data** 

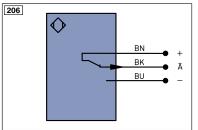
Inductive Data		
Switching Distance	3 mm	
Correction Factors Stainless Steel V2A/CuZn/Al	1,26/0,65/0,64	
Mounting	flush	
Mounting A/B/C/D in mm	0/10/9/0	
Mounting B1 in mm	04	
Switching Hysteresis	< 10 %	
Electrical Data		
Supply Voltage	1030 V DC	
Current Consumption (Ub = 24 V)	< 10 mA	
Switching Frequency	920 Hz	
Temperature Drift	< 10 %	
Temperature Range	-2580 °C	
Switching Output Voltage Drop	< 1 V	
Switching Output/Switching Current	150 mA	
Residual Current Switching Output	< 100 µA	
Short Circuit Protection	yes	
Reverse Polarity and Overload Protection	yes	
Protection Class	III	
Mechanical Data		
Housing Material	Plastic	
Full Encapsulation	yes	
Degree of Protection	IP67	
Connection	Cable, 3-wire, 2 m	
Material Cable Jacket	PVC	
Safety-relevant Data		
MTTFd (EN ISO 13849-1)	3706,54 a	
Function		
Error Indicator	yes	
PNP NC	•	
Connection Diagram No.	206	

**wepro**Tec

Inductive Sensors with increased switching distances are distinguished by rugged design, easy installation and reliable measured values. The large range makes additional types of sensor superfluous because they can also be used to implement special applications. In addition to error-free operation of several sensors in a very small space, the new generation also provides the possibility of detecting system errors before it's too late thanks to ASIC und wenglor weproTec.







Legend		PT	Platinum measuring resistor	ENA	Encoder A
+	Supply Voltage +	nc	not connected	ENB	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 (NO)	W	Trigger Input	Аок	Digital output OK
Ā	Switching Output (NC)	0	Analog Output	SY In	Synchronization In
V	Contamination/Error Output (NO)	0-	Ground for the Analog Output	SY OUT	Synchronization OUT
V	Contamination/Error Output (NC)	BZ	Block Discharge	OLT	Brightness output
E	Input (analog or digital)	Awv	Valve Output	М	Maintenance
Т	Teach Input	а	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
0	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	Signal Output	EDM	Contactor Monitoring	WH	White
BI_D+/-	- Ethernet Gigabit bidirect. data line (A-D)	ENAR542	Encoder A/Ā (TTL)	PK	Pink
	Encoder 0-pulse 0-0 (TTL)		Encoder B/B (TTL)	GNYE	Green/Yellow

## Mounting

