## **Inductive Sensor**

with Increased Switching Distance

## 103H004

Part Number



- High switching frequency of 3,000 Hz
- Increased switching distance
- Integrated LED adjustment tool
- Miniature stainless steel design

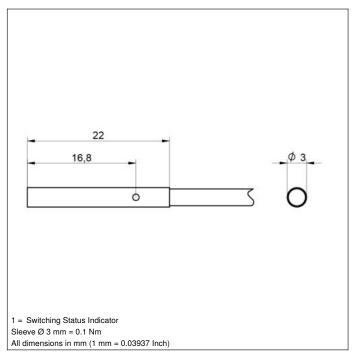
## **Technical Data**

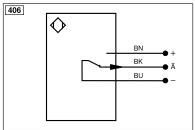
Inductive Data				
Switching Distance	1 mm			
Correction Factors Stainless Steel V2A/CuZn/Al	0,80/0,60/0,50			
Mounting	flush			
Mounting A/B/C/D in mm	1/2/3/0			
Switching Hysteresis	< 10 %			
Electrical Data				
Supply Voltage	1030 V DC			
Current Consumption (Ub = 24 V)	≤ 10 mA			
Switching Frequency	3000 Hz			
Temperature Drift	≤ 10 %			
Temperature Range	-2570 °C			
Switching Output Voltage Drop	< 2 V			
Switching Output/Switching Current	≤ 100 mA			
Residual Current Switching Output	≤ 0,1 <i>µ</i> A			
Short Circuit Protection	yes			
Reverse Polarity and Overload Protection	yes			
Protection Class	III			
Mechanical Data				
Housing Material	V2A stainless steel, POM			
Degree of Protection	IP67			
Connection	Cable, 3-wire, 2 m			
Cable Jacket Material	PUR			
Safety-relevant Data				
MTTFd (EN ISO 13849-1)	3110 a			
Function				
LED adjustment tool	yes			
NPN NC	•			
Connection Diagram No.	406			
Suitable Mounting Technology No.	924			

These inductive sensors feature increased switching distances and high switching frequencies in a miniature design. This provides effective detection of end positions and the smallest of parts, even in very confined spaces, and it means they can be used in fast assembly processes. The robust stainless steel housing and the integrated, bright LED adjustment tool ensure easy installation and a long service life.









Legend						
+	Supply Voltage +	nc	Not connected	ENBRS422	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	AMAX	Digital output MAX	
V	Contamination/Error Output (NO)	0	Analog Output	Аок	Digital output OK	
⊽	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	
Τ	Teach Input	Amv	Valve Output	OLT	Brightness output	
Z	Time Delay (activation)	а	Valve Control Output +	M	Maintenance	
S	Shielding	b	Valve Control Output 0 V	rsv	Reserved	
RxD	Interface Receive Path	SY	Synchronization	Wire Colo	olors according to DIN IEC 60757	
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	
<b>②</b>	IO-Link	Rx+/-	Ethernet Receive Path	GN	Green	
PoE	ower 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 RS422	Encoder 0-pulse 0/0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow	
PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)			

## Mounting

