# **Inductive Sensor** with Increased Switching Distance

# **I1QH001**

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	20 mm						
Correction Factors Stainless Steel V2A/CuZn/Al	0,83/0,32/0,31						
Mounting	flush						
Mounting A/B/C/D in mm	0/40/60/0						
Mounting B1 in mm	635						
Switching Hysteresis	< 10 %						
Electrical Data							
Supply Voltage	1030 V DC						
Current Consumption (Ub = 24 V)	< 10 mA						
Switching Frequency	460 Hz						
Temperature Drift	< 10 %						
Temperature Range	-4080 °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						
Degree of Protection	IP67						
Connection	M12 × 1; 4-pin						
Safety-relevant Data							
MTTFd (EN ISO 13849-1)	3706,54 a						
Function							
Error Indicator	yes						
PNP NO							
Connection Diagram No.	102						
Suitable Connection Equipment No.	2						

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.

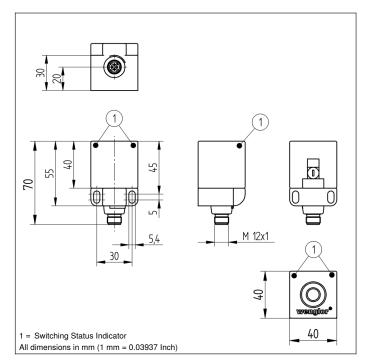
**Complementary Products** 

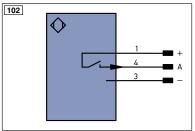
PNP-NPN Converter BG2V1P-N-2M

**Inductive Sensors** 

## weproTec







Legend PT Platinum measuring resistor ENArsez Encoder A/Ā (TTL)							
		PT	Platinum measuring resistor				
+	Supply Voltage +	nc	not connected	ENBRS422			
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A		
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	ENв	Encoder B		
A	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		
0	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		

### Mounting

