

# Inductive Sensor with Increased Switching Distance

## I1QH002

Part Number



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

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	6..35
Switching Hysteresis	< 10 %

#### Electrical Data

Supply Voltage	10..30 V DC
Current Consumption (Ub = 24 V)	< 10 mA
Switching Frequency	460 Hz
Temperature Drift	< 10 %
Temperature Range	-40..80 °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 x 1; 4-pin

#### Safety-relevant Data

MTTFd (EN ISO 13849-1)	3706,54 a
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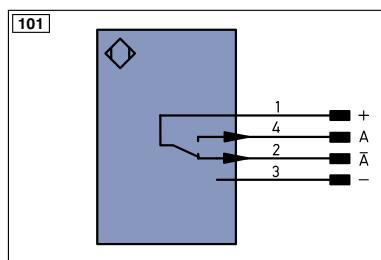
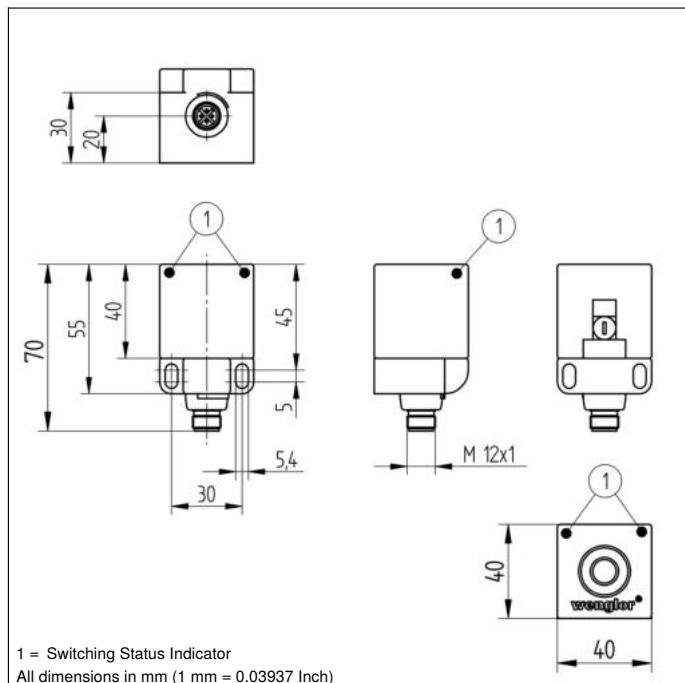
#### Function

Error Indicator	yes
PNP NO/NC antivalent	●
Connection Diagram No.	101
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


**Legend**

PT	Platinum measuring resistor
nc	not connected
U	Test Input
Ü	Test Input inverted
W	Trigger Input
W-	Ground for the Trigger Input
O	Analog Output
O-	Ground for the Analog Output
BZ	Block Discharge
Awv	Valve Output
a	Valve Control Output +
b	Valve Control Output 0 V
SY	Synchronization
SY-	Ground for the Synchronization
E+	Receiver-Line
E-	Emitter-Line
±	Grounding
SnR	Switching Distance Reduction
Rx+/-	Ethernet Receive Path
Tx+/-	Ethernet Send Path
Bus	Interfaces-Bus A(+)/B(-)
La	Emitted Light disengageable
Mag	Magnet activation
RES	Input confirmation
EDM	Contactor Monitoring

EN0RS422 Encoder A/A (TTL)  
EN0RS422 Encoder B/B (TTL)  
ENA Encoder A  
ENB Encoder B  
AMIN Digital output MIN  
AMAX Digital output MAX  
AOK Digital output OK  
SY IN Synchronization IN  
SY OUT Synchronization OUT  
OLT Brightness output  
M Maintenance  
rsv reserved

Wire Colors according to DIN IEC 757

BK	Black
BN	Brown
RD	Red
OG	Orange
YE	Yellow
GN	Green
BU	Blue
VT	Violet
GY	Grey
WH	White
PK	Pink
GNYE	Green/Yellow

**Mounting**
