Inductive Sensor
with Increased Switching Distance

I08H011
Part Number

weproTec

Technical Data

Inductive Data	
Switching Distance	4 mm
Correction Factors Stainless Steel V2A/CuZn/Al	1,07/0,49/0,47
Mounting	semi-flush
Mounting A/B/C/D in mm	8/11/12/3
Mounting B1 in mm	0...6
Switching Hysteresis	< 10 %
Electrical Data	
Supply Voltage	10...30 V DC
Current Consumption (Ub = 24 V)	< 11 mA
Switching Frequency	630 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	CuZn, nickel-plated
Degree of Protection	IP67
Connection	M8 × 1; 3-pin
Safety-relevant Data	
MTTFd (EN ISO 13849-1)	3706,54 a
Function	
Error Indicator	yes
PNP NO	●
Connection Diagram No.	102
Suitable Connection Technology No.	8
Suitable Mounting Technology No.	200 202

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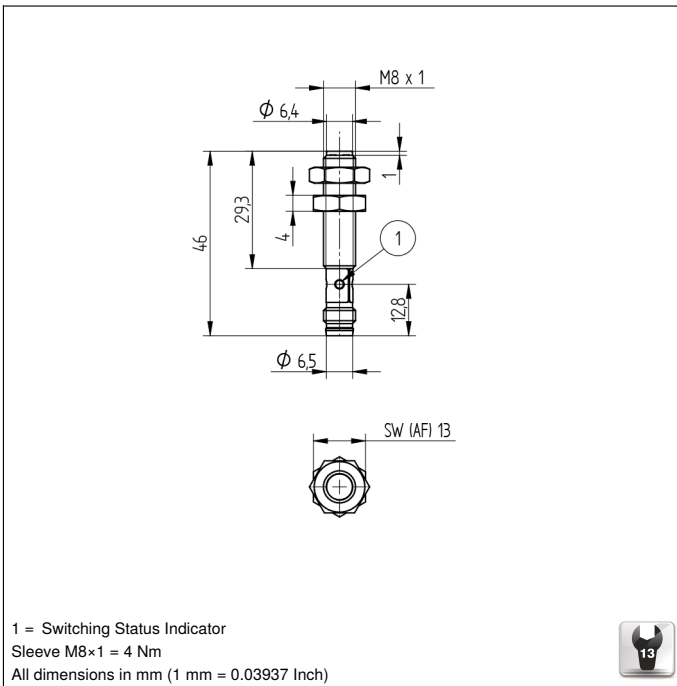- **Minimal mounting clearance thanks to wenglor weproTec**

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 BG8V1P-N-2M

1 = Switching Status Indicator
Sleeve M8×1 = 4 Nm
All dimensions in mm (1 mm = 0.03937 Inch)

[102]

1	■ +
4	■ A
3	■ −

Legend

+	Supply Voltage +		PT	Platinum measuring resistor		ENₐ	Encoder A	
−	Supply Voltage 0 V		nc	not connected		ENв	Encoder B	
∼	Supply Voltage (AC Voltage)		U	Test Input		Aᴍɪɴ	Digital output MIN	
A	Switching Output (NO)		Ū	Test Input inverted		Aᴍₐₓ	Digital output MAX	
Ā	Switching Output (NC)		W	Trigger Input		Aₒₖ	Digital output OK	
V	Contamination/Error Output (NO)		O	Analog Output		SY In	Synchronization In	
V̄	Contamination/Error Output (NC)		O−	Ground for the Analog Output		SY OUT	Synchronization OUT	
E	Input (analog or digital)		BZ	Block Discharge		Oʟт	Brightness output	
T	Teach Input		Aᴍᴠ	Valve Output		M	Maintenance	
Z	Time Delay (activation)		a	Valve Control Output +				
S	Shielding		b	Valve Control Output 0 V				

Wire Colors according to DIN IEC 757

RxD	Interface Receive Path		SY	Synchronization		BK	Black	
TxD	Interface Send Path		E+	Receiver-Line		BN	Brown	
RDY	Ready		S+	Emitter-Line		RD	Red	
GND	Ground		⏚	Grounding		OG	Orange	
CL	Clock		SnR	Switching Distance Reduction		YE	Yellow	
E/A	Output/Input programmable		Rx+/−	Ethernet Receive Path		GN	Green	
◈	IO-Link		Tx+/−	Ethernet Send Path		BU	Blue	
PoE	Power over Ethernet		Bus	Interfaces-Bus A(+)/B(−)		VT	Violet	
IN	Safety Input		La	Emitted Light disengageable		GY	Grey	
OSSD	Safety Output		Mag	Magnet activation		WH	White	
Signal	Signal Output		RES	Input confirmation		PK	Pink	
BI_D+/−	Ethernet Gigabit bidirect. data line (A-D)		EDM	Contactor Monitoring		GNYE	Green/Yellow	
EN₀ʀₛ₄₂₂	Encoder 0-pulse 0-0̄ (TTL)		ENₐʀₛ₄₂₂	Encoder A/Ā (TTL)				
			ENвʀₛ₄₂₂	Encoder B/B̄ (TTL)				

Mounting