Inductive Sensor
with Increased Switching Distance

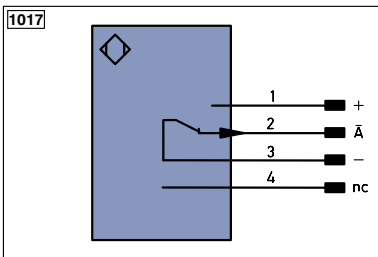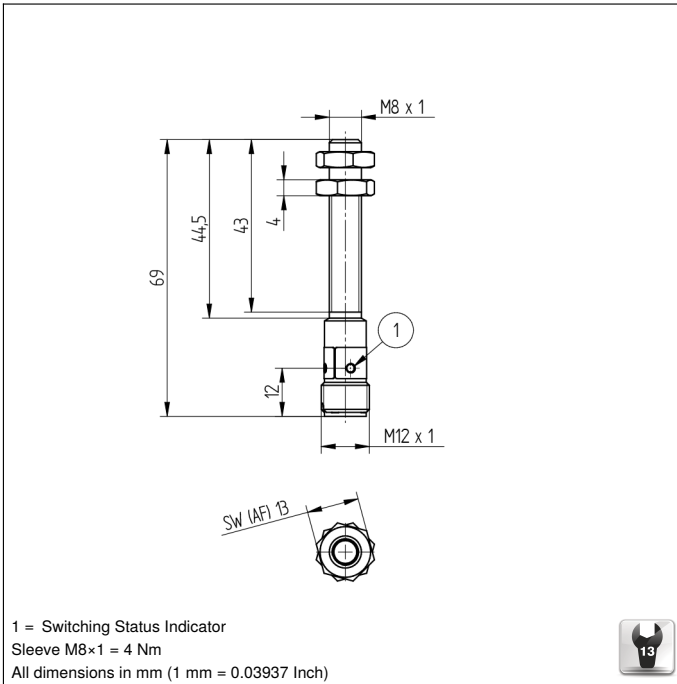## I08H048
Part Number

weproTec

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

Technical Data

Inductive Data	
Switching Distance	2 mm
Correction Factors Stainless Steel V2A/CuZn/Al	0,81/0,39/0,42
Mounting	flush
Mounting A/B/C/D in mm	0/8/6/0
Mounting B1 in mm	0...1
Switching Hysteresis	< 10 %
Electrical Data	
Supply Voltage	10...30 V DC
Current Consumption (Ub = 24 V)	< 9 mA
Switching Frequency	1070 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	M12 × 1; 4-pin
Safety-relevant Data	
MTTFd (EN ISO 13849-1)	3706,54 a
Function	
Error Indicator	yes
NPN NC	●
Connection Diagram No.	1017
Suitable Connection Technology No.	2
Suitable Mounting Technology No.	200 201

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.

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

1017

1	+
2	Ā
3	−
4	nc

Legend

+	Supply Voltage +		PT	Platinum measuring resistor		ENa	Encoder A
−	Supply Voltage 0 V		nc	not connected		ENb	Encoder B
~	Supply Voltage (AC Voltage)		U	Test Input		Amin	Digital output MIN
A	Switching Output (NO)		Ū	Test Input inverted		Amax	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		OLt	Brightness output
T	Teach Input		AMW	Valve Output		M	Maintenance
Z	Time Delay (activation)		a	Valve Control Output +			
S	Shielding		b	Valve Control Output 0 V			
RxD	Interface Receive Path		SY	Synchronization			
TxD	Interface Send Path		E+	Receiver-Line			Wire Colors according to DIN IEC 757
RDY	Ready		S+	Emitter-Line		BK	Black
GND	Ground		⏚	Grounding		BN	Brown
CL	Clock		SnR	Switching Distance Reduction		RD	Red
E/A	Output/Input programmable		Rx+/−	Ethernet Receive Path		OG	Orange
⬙	IO-Link		Tx+/−	Ethernet Send Path		YE	Yellow
PoE	Power over Ethernet		Bus	Interfaces-Bus A(+)/B(−)		GN	Green
IN	Safety Input		La	Emitted Light disengageable		BU	Blue
OSSD	Safety Output		Mag	Magnet activation		VT	Violet
Signal	Signal Output		RES	Input confirmation		GY	Grey
BI_D+/−	Ethernet Gigabit bidirect. data line (A-D)		EDM	Contactor Monitoring		WH	White
EN0RS422	Encoder 0-pulse 0-0̄ (TTL)		ENaRS422	Encoder A/Ā (TTL)		PK	Pink
			ENbRS422	Encoder B/B̄ (TTL)		GNYE	Green/Yellow

Mounting