Inductive Sensor
with Increased Switching Distance

I12H005
Part Number

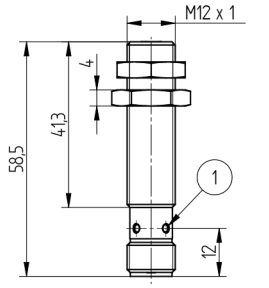
weproTec

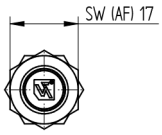
- **Increased switching distance**
- **Innovative ASIC circuit technology**
- **Integrated error display**
- **Minimal mounting clearance thanks to wenglor weproTec**

Technical Data

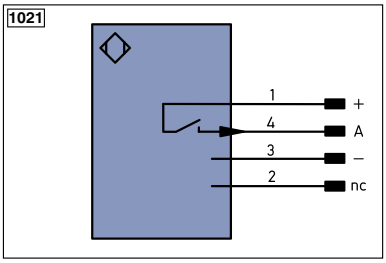
Inductive Data	
Switching Distance	4 mm
Correction Factors V2A/CuZn/Al	1,03/0,56/0,52
Mounting	flush
Mounting A/B/C/D in mm	0/8/12/0
Mounting B1 in mm	0...2
Switching Hysteresis	< 10 %
Electrical Data	
Supply Voltage	10...30 V DC
Current Consumption (Ub = 24 V)	< 6 mA
Switching Frequency	1150 Hz
Temperature Drift	< 10 %
Temperature Range	-40...80 °C
Switching Output Voltage Drop	< 2,5 V
PNP Switching Output/Switching Current	100 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
Function	
Error Indicator	yes
PNP NO	●
Connection Diagram No.	1021
Suitable Connection Technology No.	2
Suitable Mounting Technology No.	170

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
All dimensions in mm (1 mm = 0.03937 Inch)



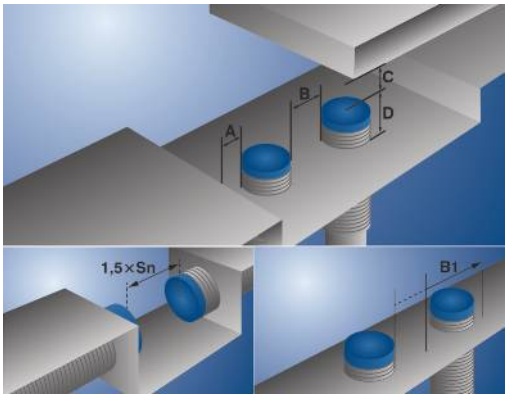
Legend

+	Supply Voltage +		nc	not connected			
–	Supply Voltage 0 V		U	Test Input			
~	Supply Voltage (AC Voltage)		Ū	Test Input inverted			
A	Switching Output	(NO)	W	Trigger Input			
Ā	Switching Output	(NC)	O	Analog Output			
V	Contamination/Error Output	(NO)	O–	Ground for the Analog Output			
V̄	Contamination/Error Output	(NC)	BZ	Block Discharge			
E	Input (analog or digital)		AMV	Valve Output			
T	Teach Input		a	Valve Control Output +			
Z	Time Delay (activation)		b	Valve Control Output 0 V			
S	Shielding		SY	Synchronization			
RxD	Interface Receive Path		E+	Receiver-Line			
TxD	Interface Send Path		S+	Emitter-Line			
RDY	Ready		⏚	Grounding			
GND	Ground		SnR	Switching Distance Reduction			
CL	Clock		Rx+/–	Ethernet Receive Path			
E/A	Output/Input programmable		Tx+/–	Ethernet Send Path			
	IO-Link		Bus	Interfaces-Bus A(+)/B(–)			
PoE	Power over Ethernet		La	Emitted Light disengageable			
IN	Safety Input		Mag	Magnet activation			
OSSD	Safety Output		RES	Input confirmation			
Signal	Signal Output		EDM	Contactor Monitoring			

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



Complementary Products

PNP-NPN Converter BG2V1P-N-2M