Inductive Sensor
with Standard Switching Distances

I18N004
Part Number

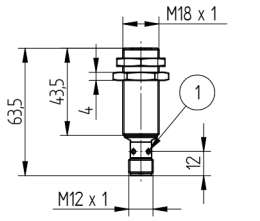
weproTec

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

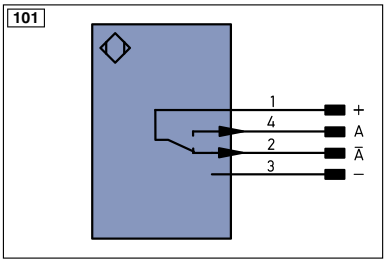
Technical Data

Inductive Data	
Switching Distance	5 mm
Correction Factors V2A/CuZn/Al	1,10/0,45/0,41
Mounting	flush
Mounting A/B/C/D in mm	0/24/8/0
Mounting B1 in mm	0...12
Switching Hysteresis	< 10 %
Electrical Data	
Supply Voltage	10...30 V DC
Current Consumption (Ub = 24 V)	< 12 mA
Switching Frequency	1110 Hz
Temperature Drift	< 10 %
Temperature Range	-40...80 °C
Switching Output Voltage Drop	< 1 V
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/NC antivalent	●
Connection Diagram No.	101
Suitable Connection Technology No.	2
Suitable Mounting Technology No.	150, 151

Inductive Sensors with standard switching distances are distinguished by rugged design, easy installation and reliable measured values. 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.



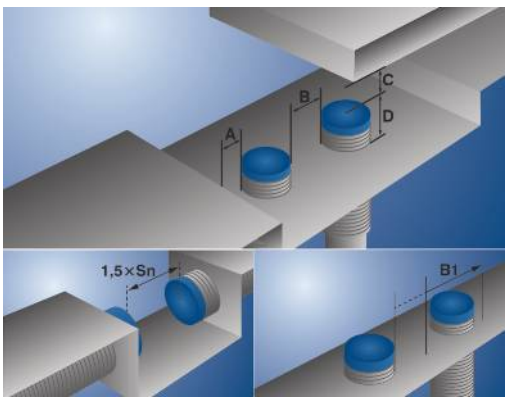
1 = Switching Status Indicator
Sleeve M18×1 = 30 Nm
All dimensions in mm (1 mm = 0.03937 Inch)



Legend

+	Supply Voltage +	nc	not connected	ENA	Encoder A
–	Supply Voltage 0 V	U	Test Input	ENB	Encoder B
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	AMIN	Digital output MIN
A	Switching Output (NO)	W	Trigger Input	AMAX	Digital output MAX
Ā	Switching Output (NC)	O	Analog Output	AOK	Digital output OK
V	Contamination/Error Output (NO)	O–	Ground for the Analog Output	SY In	Synchronization In
V̄	Contamination/Error Output (NC)	BZ	Block Discharge	SY OUT	Synchronization OUT
E	Input (analog or digital)	AMV	Valve Output	OLT	Brightness output
T	Teach Input	a	Valve Control Output +	M	Maintenance
Z	Time Delay (activation)	b	Valve Control Output 0 V	Wire Colors according to DIN IEC 757	
S	Shielding	SY	Synchronization	BK	Black
RxD	Interface Receive Path	E+	Receiver-Line	BN	Brown
TxD	Interface Send Path	S+	Emitter-Line	RD	Red
RDY	Ready	⏚	Grounding	OG	Orange
GND	Ground	SnR	Switching Distance Reduction	YE	Yellow
CL	Clock	Rx+/–	Ethernet Receive Path	GN	Green
E/A	Output/Input programmable	Tx+/–	Ethernet Send Path	BU	Blue
	IO-Link	Bus	Interfaces-Bus A(+)/B(–)	VT	Violet
PoE	Power over Ethernet	La	Emitted Light disengageable	GY	Grey
IN	Safety Input	Mag	Magnet activation	WH	White
OSSD	Safety Output	RES	Input confirmation	PK	Pink
Signal	Signal Output	EDM	Contactor Monitoring	GNYE	Green Yellow

Mounting



Complementary Products

PNP-NPN Converter BG2V1P-N-2M