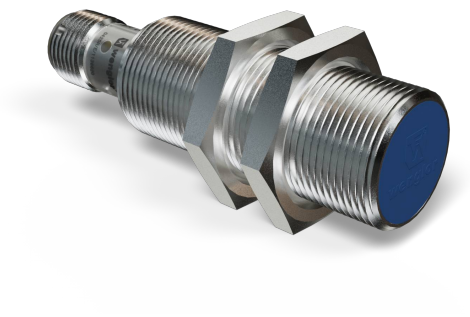
Inductive Sensor
of the Basic series

I18X001
Part Number

weproTec



- **Increased switching distance**
- **Integrated error display**
- **Minimal mounting clearance thanks to wenglor weproTec**
- **Robust metal housing**

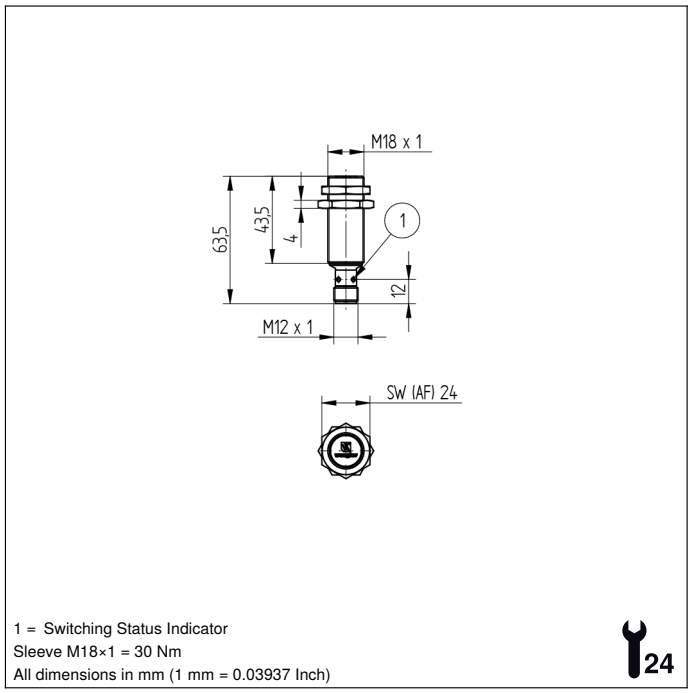
Inductive sensors of the Basic series impress with their robust metal housing, easy installation and reliable switching points. With their increased switching distance, they offer a large range so that many applications can be implemented without additional or special sensor types. Thanks to wenglor weproTec, the sensors ensure stable and low-interference operation – even in confined spaces. They are ideal for standard industrial applications and stand for reliable functionality at an attractive price-performance ratio.

Technical Data

Inductive Data	
Switching Distance	8 mm
Correction Factors Stainless Steel V2A/CuZn/Al	0,91/0,45/0,43
Mounting	Flush
Mounting A/B/C/D in mm	0/24/24/0
Mounting B1 in mm	0...15
Switching Hysteresis	< 10 %
Electrical Data	
Supply Voltage	10...30 V DC
Current Consumption (Ub = 24 V)	< 6 mA
Switching Frequency	400 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 Protection	yes
Overload Protection	yes
Protection Class	III
Mechanical Data	
Housing Material	Brass, nickel-plated
Sensing face	Plastic, PBT
Degree of Protection	IP67
Connection	M12 × 1; 3-pin
Safety-relevant Data	
MTTFd (EN ISO 13849-1)	3706,54 a
Function	
Error Indicator	yes
Scope of delivery	1 × MUTTER-M18-E001 hex nut 1 × sensor
Packaging unit	1 Piece
PNP NO	●
Connection Diagram No.	102
Suitable Connection Equipment No.	2
Suitable Mounting Technology No.	150 151

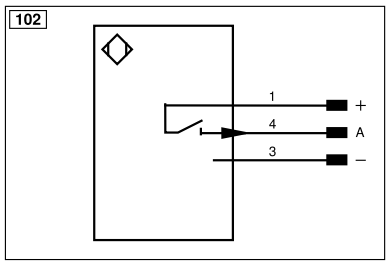
Complementary Products

PNP-NPN Converter BG2V1P-N-2M



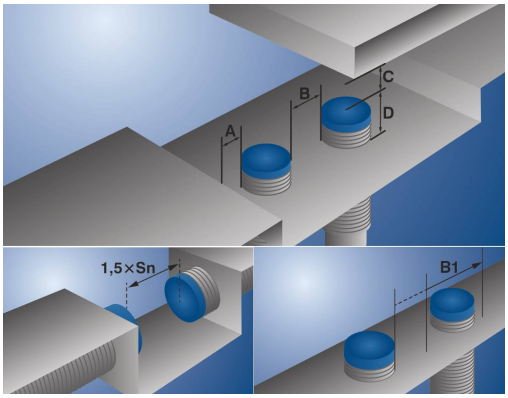
1 = Switching Status Indicator
Sleeve M18×1 = 30 Nm
All dimensions in mm (1 mm = 0.03937 Inch)

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Legend					
+	Supply Voltage +	PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)
–	Supply Voltage 0 V	nc	Not connected	ENBRS422	Encoder B/B̄ (TTL)
~	Supply Voltage (AC Voltage)	U	Test Input	ENA	Encoder A
A	Switching Output (NO)	Ū	Test Input inverted	ENB	Encoder B
Ā	Switching Output (NC)	W	Trigger Input	AMIN	Digital output MIN
V	Contamination/Error Output (NO)	W–	Ground for the Trigger Input	AMAX	Digital output MAX
V̄	Contamination/Error Output (NC)	O	Analog Output	AOK	Digital output OK
E	Input (analog or digital)	O–	Ground for the Analog Output	SY In	Synchronization In
T	Teach Input	BZ	Block Discharge	SY OUT	Synchronization OUT
R	Reset input	AMV	Valve Output	OLT	Brightness output
Z	Time Delay (activation)	a	Valve Control Output +	M	Maintenance
S	Shielding	b	Valve Control Output 0 V	rsv	Reserved
RxD	Interface Receive Path	SY	Synchronization	Wire Colors according to DIN IEC 60757	
TxD	Interface Send Path	SY–	Ground for the Synchronization	BK	Black
RDY	Ready	E+	Receiver-Line	BN	Brown
GND	Ground	S+	Emitter-Line	RD	Red
CL	Clock	⏚	Grounding	OG	Orange
E/A	Output/Input programmable	SnR	Switching Distance Reduction	YE	Yellow
	IO-Link	Rx+/–	Ethernet Receive Path	GN	Green
PoE	ower over Ethernet	Tx+/–	Ethernet Send Path	BU	Blue
IN	Safety Input	Bus	Interfaces-Bus A(+)/B(–)	VT	Violet
OSSD	Safety Output	La	Emitted Light disengageable	GY	Grey
Signal	Signal Output	Mag	Magnet activation	WH	White
BI_D+/–	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation	PK	Pink
EN0 RS422	Encoder 0-pulse 0/0̄ (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow

Mounting



Specifications are subject to change without notice V0-23.04.2026