Inductive Sensor
with Standard Switching Distances

I18N001
Part Number
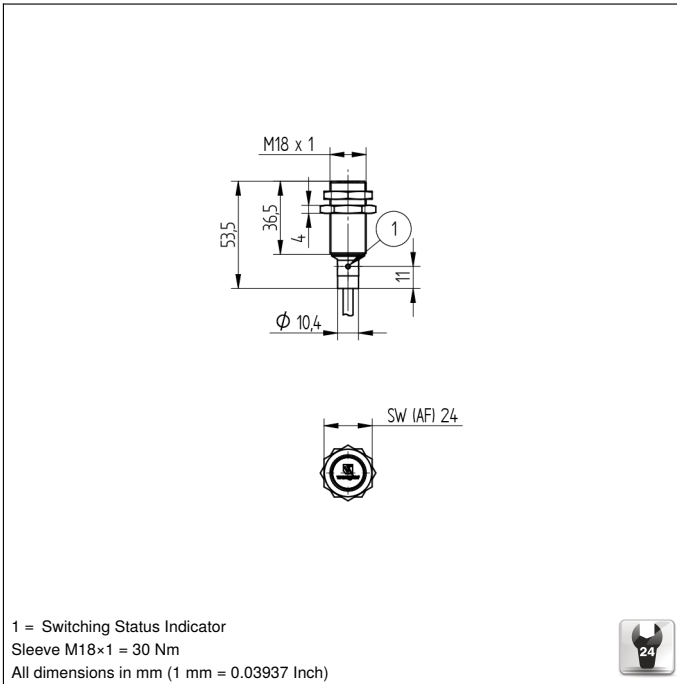
*wepro*Tec

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

Technical Data

Inductive Data	
Switching Distance	5 mm
Correction Factors Stainless Steel 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	-25...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	Cable, 3-wire, 2 m
Material Cable Jacket	PVC
Safety-relevant Data	
MTTFd (EN ISO 13849-1)	3706,54 a
Function	
Error Indicator	yes
PNP NO	●
Connection Diagram No.	202
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)

24

202

	BN	+
	BK	A
	BU	−

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	AMV	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		**Wire Colors according to DIN IEC 757**
TxD	Interface Send Path	E+	Receiver-Line		
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