Inductive Analysis Module
for Extreme Temperature Ranges

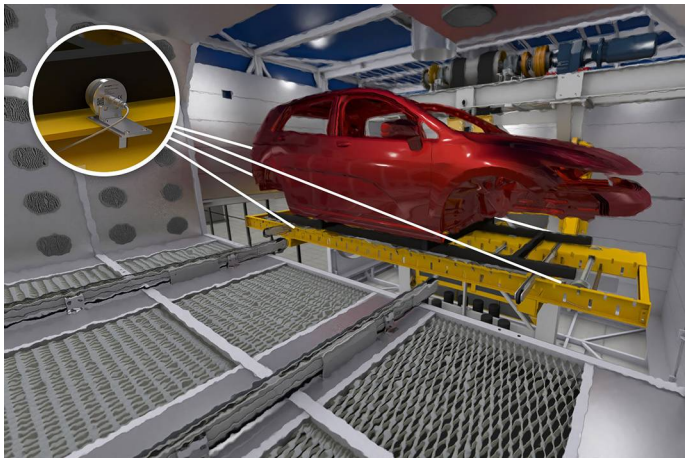
INTT229
Part Number

- **Interchangeable sensor head**
- **Long service life at temperatures of up to 250 °C**
- **Minimal mounting clearance thanks to wenglor we-proTec**
- **Switching distance configurable via IO-Link**

Technical Data

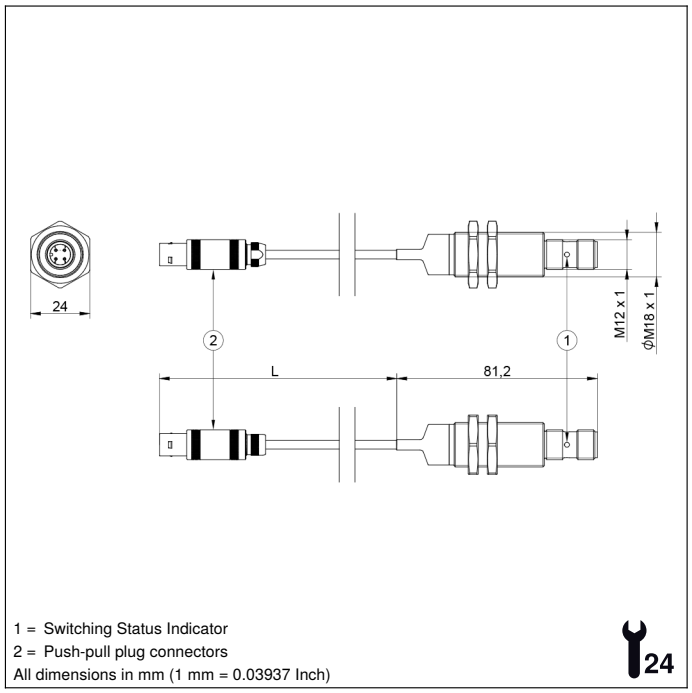
Inductive Data	
Switching Distance	25 mm
Use	With INTT220
Electrical Data	
Supply Voltage	10...30 V DC
Supply Voltage with IO-Link	18...30 V DC
Current Consumption (Ub = 24 V)	< 15 mA
Switching Frequency	50 Hz
Temperature Drift	< 10 %
Analysis module temperature range	0...70 °C
Number of Switching Outputs	2
Switching Output Voltage Drop	< 1,5 V
Switching Output/Switching Current	100 mA
Residual Current Switching Output	< 100 µA
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Interface	IO-Link V1.1
Protection Class	III
Mechanical Data	
Analysis module material	Stainless steel, V2A (1.4305 / 303)
Degree of protection, analysis module	IP65
Degree of protection for push-pull connector	IP50
Degree of protection for push-pull connector	IP51*
Connection	M12 × 1; 4-pin
Cable length (L)	15 m
Cable Jacket Material	Plastic, PFA
Outer diameter cable	3,4 mm
Bending Radius	> 17 mm
PWIS-free	yes
Safety-relevant Data	
MTTFd (EN ISO 13849-1)	3706,54 a
Function	
Error Indicator	yes
Programmable switching distance	15/20/25 mm
Scope of delivery	1 × analysis module 1 × initial start-up instructions 1 × MUTTER-M18-E003 hex nut
IO-Link	●
Error Output	●
PNP NO	●
Connection Diagram No.	704
Suitable Connection Equipment No.	2
Suitable Mounting Technology No.	150

* IP51 only when the sensor head is mounted with the active surface facing upward (water droplets falling from above).



Complementary Products

Inductive sensor head
IO-Link Master
Software

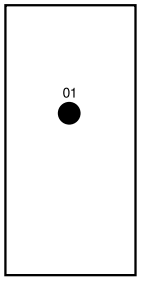


1 = Switching Status Indicator
2 = Push-pull plug connectors
All dimensions in mm (1 mm = 0.03937 Inch)

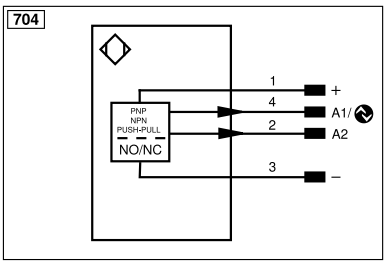
24

Ctrl. Panel

B3



01 = Switching Status Indicator



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