Inductive Sensor

for Extreme Temperature Ranges

INTT303

Part Number



- Analysis module integrated into M12 sensor connector
- Easy to replace sensors with data storage feature
- Highly efficient with an average service life of 5 years
- Three configurable switching distances: 30/35/40 mm

The high temperature inductive sensor with cable lengths of 1 to 30 meters can be positioned as needed in hot areas of systems and machines. Installation is also easy due to the ultra-compact design, as the analysis module is integrated into the M12 sensor connector. The sensor thus takes up far less space and is highly compatible thanks to its standardized design. The weproTec technology makes it possible to install the sensors directly next to or across from one another. In addition, sensor parameters like switching distance and output functions can be configured individually via IO-Link.



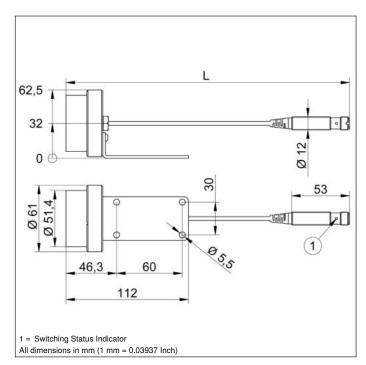
Technical Data

Inductive Data			
Switching Distance	40 mm		
Standard Target	120 × 120 mm		
Correction Factors Stainless Steel V2A/CuZn/Al	1,10/0,65/0,58		
Mounting	non-flush		
Mounting A/B/C/D in mm	60/120/80/20		
Mounting B1 in mm	080		
Switching Hysteresis	< 10 %		
Electrical Data			
Supply Voltage	1030 V DC		
Supply Voltage with IO-Link	1830 V DC		
Current Consumption (Ub = 24 V)	< 15 mA		
Switching Frequency	50 Hz		
Temperature Drift	< 10 %		
Sensor head temperature range	-10250 °C		
Temperature range of the plug	070 °C		
Number of Switching Outputs	2		
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	ves		
Interface	IO-Link V1.1		
Protection Class	III		
Service Life (T = +200 °C)	100000 h		
,	60000 h		
Service Life (T = +250 °C) Mechanical Data	00000 II		
Sensor head material	Stainless steel V2A;		
	PEEK; PTFE		
Plug material	CuZn, nickel-plated		
Degree of protection, sensor head	IP65		
Degree of protection of the plug	IP65		
Connection	M12 × 1; 4-pin		
Cable Length (L)	5 m		
Outer diameter cable	3,4 mm		
PWIS-free	yes		
Safety-relevant Data			
MTTFd (EN ISO 13849-1)	3706,54 a		
Function			
Error Indicator	yes		
Programmable switching distance	30/35/40 mm		
Error Output			
PNP NO/NC antivalent			
Connection Diagram No.	704		
Control Panel No.	B3		
Suitable Connection Equipment No.	2		
Suitable Mounting Technology No.	170 172		

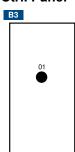
Complementary Products

IO-Link Master

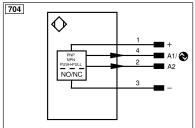




Ctrl. Panel



01 = Switching Status Indicator



Legena						
+	Supply Voltage +	nc	Not connected	ENBRS422	Encoder B/B (TTL)	
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A	
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	ENB	Encoder B	
Α	Switching Output (NO)	W	Trigger Input	Amin	Digital output MIN	
Ā	Switching Output (NC)	W-	Ground for the Trigger Input	AMAX	Digital output MAX	
V	Contamination/Error Output (NO)	0	Analog Output	Аок	Digital output OK	
⊽	Contamination/Error Output (NC)	0-	Ground for the Analog Output	SY In	Synchronization In	
E	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization OUT	
Τ	Teach Input	Amv	Valve Output	OLT	Brightness output	
Z	Time Delay (activation)	а	Valve Control Output +	M	Maintenance	
S	Shielding	b	Valve Control Output 0 V	rsv	Reserved	
RxD	Interface Receive Path	SY	Synchronization	Wire Colo	olors 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	
②	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	
ENo RS422	Encoder 0-pulse 0/0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow	
PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)			

Mounting

