Inductive Sensor

112H019

Part Number



- Easy sensor configuration using the IO-Link interface
- Innovative ASIC circuit technology
- Integrated error display and error output
- Minimal mounting clearance thanks to wenglor weproTec

The Inductive Sensors have not only been equipped with ASIC, but rather with an IO-Link interface as well for ideal integration into networks. As a result, a total of three switching distances and two switching frequencies can be selected, and PNP/NPN as well as NO/NC/antivalent options can be set as desired. This reduces the number of variants while simultaneously expanding the scope of functions.

Technical Data

Inductive Data				
Switching Distance	6 mm			
Standard Target	arget 18 × 18 mm			
Correction Factors Stainless Steel V2A/CuZn/Al	on Factors Stainless Steel V2A/CuZn/Al 1,11/0,53/0,50			
Mounting	semi-flush			
Mounting A/B/C/D in mm	12/26/18/4			
Mounting B1 in mm	013			
Switching Hysteresis	< 10 %			
Electrical Data				
Supply Voltage	1030 V DC			
Supply Voltage with IO-Link	1830 V DC			
Current Consumption (Ub = 24 V)	< 12 mA			
Switching Frequency	770 Hz			
Temperature Drift	< 10 %			
Temperature Range	-4080 °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			
Interface	IO-Link V1.1			
Protection Class	III			
Mechanical Data				
Housing Material	CuZn, nickel-plated			
Degree of Protection	IP67			
Connection	M12 × 1; 4-pin			
Safety-relevant Data				
MTTFd (EN ISO 13849-1)	3706,54 a			
Function				
Error Indicator	yes			
Programmable switching distance	4/5/6 mm			
Programmable switching frequency	yes			
IO-Link	•			
Switchable to NC/NO				
Configurable as PNP/NPN/Push-Pull				
Programmable error output				
Connection Diagram No.	704			
Suitable Connection Equipment No.	2			
Suitable Mounting Technology No.	170 172			

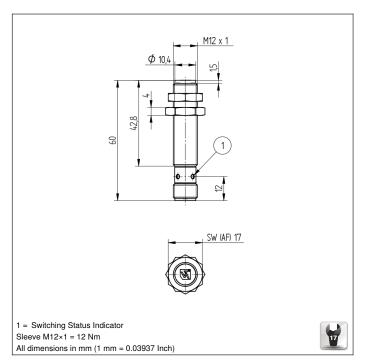
weproTec

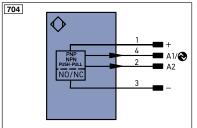
Complementary Products

IO-Link Master

Software







_eger	10	PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)	
+	Supply Voltage +	nc	not connected	ENBR5422	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	Амах	Digital output MAX	
٧	Contamination/Error Output (NO)	0	Analog Output	Аок	Digital output OK	
V	Contamination/Error Output (NC)	0-	Ground for the Analog Output	SY In	Synchronization In	
Е	Input (analog or digital)	BZ	Block Discharge	SY OUT		
Т	Teach Input	Awv	Valve Output	OLT	Brightness output	
Z	Time Delay (activation)	а	Valve Control Output +	М	Maintenance	
S	Shielding	b	Valve Control Output 0 V	rsv	reserved	
RxD	Interface Receive Path	SY	Synchronization	Wire Co	Wire Colors according to DIN IEC 757	
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	Power 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		Input confirmation	PK	Pink	
FNnessa	Encoder 0-pulse 0-0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow	

Mounting

