Inductive Sensor with IO-Link

11QH005

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

Technical Data

Inductive Data						
Switching Distance	20 mm					
Standard Target	60 × 60 mm					
Correction Factors Stainless Steel V2A/CuZn/Al	0,83/0,32/0,31					
Mounting	flush					
Mounting A/B/C/D in mm	0/40/60/0					
Mounting B1 in mm	635					
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	700 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	Plastic					
Full Encapsulation	yes					
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	12/15/20 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					

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.

Complementary Products

IO-Link Master Software weproTec









Legen	d	PŤ	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	ENв	Encoder B	
А	Switching Output (NO)	W	Trigger Input	Amin	Digital output MIN	
Ā	Switching Output (NC)	W -	Ground for the Trigger Input	Амах	Digital output MAX	
V	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	
E	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization 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		Orange	
E/A	Output/Input programmable	SnR	Switching Distance Reduction	YE	Yellow	
۲	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 (A-D)	RES	Input confirmation	PK	Pink	
EN0 RS422	Encoder 0-pulse 0-0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow	

Mounting



