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

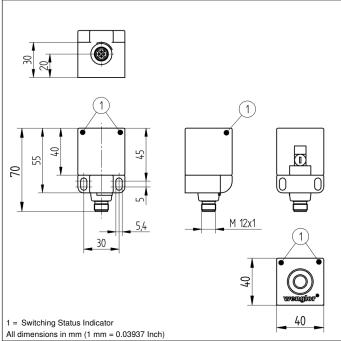
Inductive Data			
Switching Distance	20 mm		
Standard Target	60 × 60 mm		
Correction Factors Stainless Steel V2A/CuZn/Al	0,83/0,32/0,31		
Mounting	flush		
Mounting A/B/C/D in mm	0/40/60/0		
Mounting B1 in mm	635		
Switching Hysteresis	< 10 %		
Electrical Data			
Supply Voltage	1030 V DC		
Supply Voltage with IO-Link	1830 V DC		
Current Consumption (Ub = 24 V)	< 15 mA		
Switching Frequency	620 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 V1.0		
Protection Class	111		
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	Ŭ.		
Programmable error output	Ū.		
Connection Diagram No.	704		
Suitable Connection Technology No.	2		

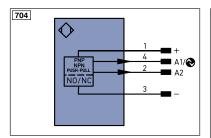
The Inductive Sensors have not only been equipped with ASIC, but rather with an IO-Link interface as well for ideal integration into networks. As a result, a total of three switching distances and two switching frequencies can be selected, and PNP/NPN as well as NO/NC/antivalent options can be set as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

Complementary Products

IO-Link Master Software weproTec

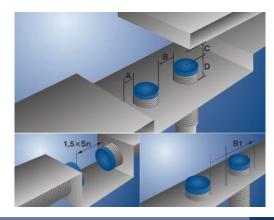






Legend		PŤ	Platinum measuring resistor	ENA	Encoder A
+	Supply Voltage +	nc	not connected	ENв	Encoder B
-	Supply Voltage 0 V	U	Test Input	Amin	Digital output MIN
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	Амах	Digital output MAX
А	Switching Output (NO)	W	Trigger Input	Аок	Digital output OK
Ā	Switching Output (NC)	0	Analog Output	SY In	Synchronization In
V	Contamination/Error Output (NO)	0-	Ground for the Analog Output	SY OUT	Synchronization OUT
V	Contamination/Error Output (NC)	BZ	Block Discharge	OLT	Brightness output
E	Input (analog or digital)	Awv	Valve Output	м	Maintenance
Т	Teach Input	a	Valve Control Output +		
Z	Time Delay (activation)	b	Valve Control Output 0 V		
S	Shielding	SY	Synchronization	Wire Colors according to DIN IEC 757	
RxD	Interface Receive Path	E+	Receiver-Line		
TxD	Interface Send Path	S+	Emitter-Line	BK	Black
RDY	Ready	÷	Grounding	BN	Brown
GND	Ground	SnR	Switching Distance Reduction	RD	Red
CL	Clock	Rx+/-	Ethernet Receive Path	OG	Orange
E/A	Output/Input programmable	Tx+/-	Ethernet Send Path	YE	Yellow
۲	IO-Link	Bus	Interfaces-Bus A(+)/B(-)	GN	Green
PoE	Power over Ethernet	La	Emitted Light disengageable	BU	Blue
IN	Safety Input	Mag	Magnet activation	VT	Violet
OSSD	Safety Output	RES	Input confirmation	GY	Grey
Signal	Signal Output	EDM	Contactor Monitoring	WH	White
BI_D+/-	Ethernet Gigabit bidirect. data line (A-D)	ENARS422	Encoder A/Ā (TTL)	PK	Pink
	Encoder 0-pulse 0-0 (TTL)		Encoder B/B (TTL)	GNYE	Green/Yellow

Mounting





Specifications are subject to change without notice