Inductive Sensor with Selective Performance

ISQ250NK01A3

Part Number



• For ferrous magnets

Technical Data

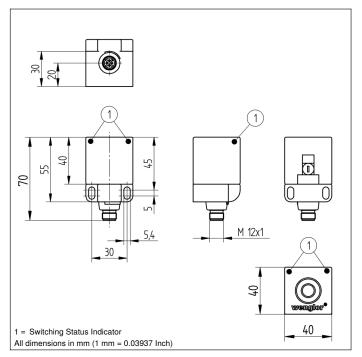
Inductive Data			
Switching Distance	25 mm		
Correction Factors Fe360/Stainless Steel V2A/CuZn/Al	1/0,09/0/0		
Mounting	non-flush		
Mounting A/B/C/D in mm	0/80/75/40		
Switching Hysteresis	< 10 %		
Electrical Data			
Supply Voltage	1030 V DC		
Current Consumption (Ub = 24 V)	< 10 mA		
Switching Frequency	300 Hz		
Temperature Drift	< 10 %		
Temperature Range	-2580 °C		
Switching Output Voltage Drop	< 1,5 V		
Switching Output/Switching Current	200 mA		
Residual Current Switching Output	< 100 µA		
Short Circuit Protection	yes		
Reverse Polarity and Overload Protection	yes		
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)	1889,05 a		
PNP NO/NC antivalent	•		
Connection Diagram No.	101		
Suitable Connection Equipment No.	2		

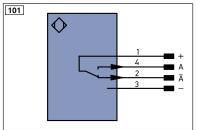
The inductive sensors with selective performance can differ ferrous-magnetic metals (e.g. iron, steel) from non-ferrous-magnetic metals (aluminium, brass, copper and stainless steel).

Complementary Products

PNP-NPN Converter BG2V1P-N-2M







Legend		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	2 Encoder 0-pulse 0-0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow	

Mounting

