Inductive Sensor with Full-Metal Housing

IB040DE65UD3

Part Number



- IP68/IP69K
- Pressure resistant
- Stainless steel housing

Technical Data

Inductive Data							
Switching Distance	4 mm						
Correction Factors Stainless Steel V2A/CuZn/Al	0,82/0,35/0,32						
Mounting	Flush						
Mounting A/B/C/D in mm	0/8/12/0						
Mounting A/B/C/D (V2A) in mm	0/8/12/0						
Switching Hysteresis	< 15 %						
Electrical Data							
Supply Voltage	1030 V DC						
Current Consumption (Ub = 24 V)	< 15 mA						
Switching Frequency	500 Hz						
Temperature Drift	< 10 %						
Temperature Range	-2580 °C						
Switching Output Voltage Drop	< 2,5 V						
Switching Output/Switching Current	400 mA						
Residual Current Switching Output	< 100 µA						
Short Circuit Protection	yes						
Reverse Polarity and Overload Protection	yes						
Protection Class	III						
Mechanical Data							
Housing Material	Stainless steel, V4A						
Full Encapsulation yes							
Degree of Protection	IP68/IP69K						
Connection	M12 × 1; 4-pin						
Pressure Resistance Sensor Area	60 bar						
Ex II 3G Ex nA IIC T5 Gc X	yes						
Ex II 3D Ex tc IIIC T90°C Dc IP6X X	yes						
Safety-relevant Data							
MTTFd (EN ISO 13849-1)	2065,66 a						
Packaging unit	1 Piece						
PNP NC							
Connection Diagram No.	106						
Suitable Connection Equipment No.	2						
Suitable Mounting Technology No.	170						

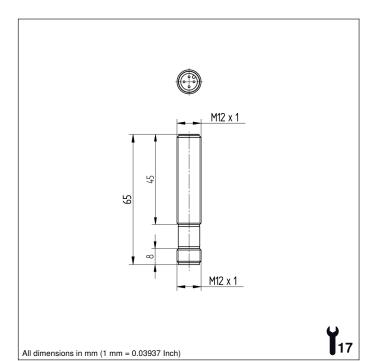
Housing: Stainless Steel V4A 1.4404, 316L

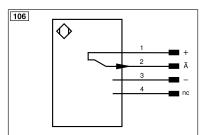
The inductive sensors with full-metal housing are suitable for harsh ambient conditions thanks to the 316L stainless steel housing. In addition, the sensors are ATEX-certified, which means that they can also be used in potentially explosive areas. The sensors with full-metal housing impress with their easy installation and reliable switching behavior.

Complementary Products

Circlip Z0007 PNP-NPN Converter BG2V1P-N-2M







Legend						
+	Supply Voltage +	nc	Not connected	ENBRS422	Encoder B/B (TTL)	
-	Supply Voltage 0 V	U	Test Input	ENa	Encoder A	
~	Supply Voltage (AC Voltage)	0	Test Input inverted	ENв	Encoder B	
A	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	
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	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 Colors 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	<u>+</u>	Grounding	OG	Orange	
E/A	Output/Input programmable	SnR	Switching Distance Reduction	YE	Yellow	
0	10-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

