with Increased Switching Distance

I1CH012

Part Number



- Increased switching distance
- Innovative ASIC circuit technology
- Integrated error display
- Minimal mounting clearance thanks to wenglor weproTec

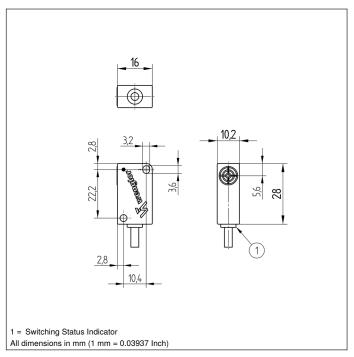
Inductive Sensors with increased switching distances are distinguished by rugged design, easy installation and reliable measured values. The large range makes additional types of sensor superfluous because they can also be used to implement special applications. In addition to error-free operation of several sensors in a very small space, the new generation also provides the possibility of detecting system errors before it's too late thanks to ASIC und wenglor weproTec.

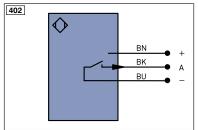
weproTec

Technical Data

Inductive Data				
Switching Distance	3 mm			
Correction Factors Stainless Steel V2A/CuZn/Al	1,26/0,65/0,64			
Mounting	flush			
Mounting A/B/C/D in mm	0/10/9/0			
Mounting B1 in mm	04			
Switching Hysteresis	< 10 %			
Electrical Data				
Supply Voltage	1030 V DC			
Current Consumption (Ub = 24 V)	< 10 mA			
Switching Frequency	920 Hz			
Temperature Drift	< 10 %			
Temperature Range	-2580 °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			
Protection Class	III			
Mechanical Data				
Housing Material	Plastic			
l Encapsulation yes				
Degree of Protection	IP67			
Connection	Cable, 3-wire, 2 m			
Cable Jacket Material PVC				
Safety-relevant Data				
MTTFd (EN ISO 13849-1)	3706,54 a			
Diagnostic Coverage (DC)	0 %			
ervice Life TM (EN ISO 13849-1) 20 a				
Function				
Error Indicator	yes			
NPN NO				
Connection Diagram No.	402			







.egen	10	P	T	Platinum measuring resistor	ENA	Encoder A
+	Supply Voltage +	n	С	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
Α	Switching Output (N	O) V	V	Trigger Input	Аок	Digital output OK
Ā	Switching Output (N	C) C)	Analog Output	SY In	Synchronization In
٧	Contamination/Error Output (N	O) C)—	Ground for the Analog Output	SY OUT	Synchronization OUT
V	Contamination/Error Output (N	C) B	Z	Block Discharge	OLT	Brightness output
E	Input (analog or digital)	A	WV	Valve Output	М	Maintenance
Т	Teach Input	а		Valve Control Output +	rsv	reserved
Z	Time Delay (activation)	b		Valve Control Output 0 V		
S	Shielding	S	Υ	Synchronization	Wire C	colors according to
RxD	Interface Receive Path	E	+	Receiver-Line	DIN IE	C 757
TxD	Interface Send Path	S	+	Emitter-Line	BK	Black
RDY	Ready	긭	÷	Grounding	BN	Brown
GND	Ground	S	inR	Switching Distance Reduction	RD	Red
CL	Clock	R	x+/-	Ethernet Receive Path	OG	Orange
E/A	Output/Input programmable	Т	x+/-	Ethernet Send Path	YE	Yellow
0	IO-Link	В	us	Interfaces-Bus A(+)/B(-)	GN	Green
PoE	Power over Ethernet	L		Emitted Light disengageable	BU	Blue
IN	Safety Input	м	lag	Magnet activation	VT	Violet
OSSD	Safety Output	R		Input confirmation	GY	Grey
Signal		E		Contactor Monitoring	WH	White
BI_D+/-	- Ethernet Gigabit bidirect. data lin	e (A-D)		Encoder A/Ā (TTL)	PK	Pink
	2 Encoder 0-pulse 0-0 (TTL)			Encoder B/B (TTL)	GNYE	Green/Yellow

Mounting

