## **Inductive Sensor** with Increased Switching Distance

# **11AH011**

Part Number

#### weproTec

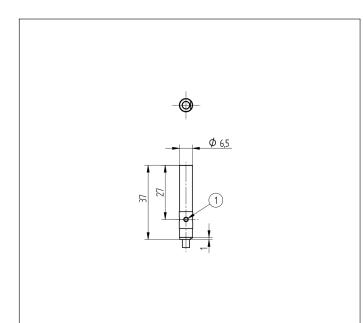
- Increased switching distance
- Innovative ASIC circuit technology
- Integrated error display
- Minimal mounting clearance thanks to wenglor weproTec

#### **Technical Data**

Inductive Data			
Switching Distance	2 mm		
Correction Factors Stainless Steel V2A/CuZn/Al	0,81/0,46/0,42		
Mounting	flush		
Mounting A/B/C/D in mm	0/9/6/0		
Mounting B1 in mm	02		
Switching Hysteresis	< 10 %		
Electrical Data			
Supply Voltage	1030 V DC		
Current Consumption (Ub = 24 V)	< 5 mA		
Switching Frequency	1120 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	CuZn, nickel-plated		
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 %		
Service Life TM (EN ISO 13849-1)	20 a		
Function			
Error Indicator	yes		
NPN NC			
Connection Diagram No.	406		
Suitable Mounting Technology No.	240		

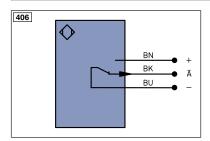
Inductive Sensors with increased switching distances are distinguished by rugged design, easy installation and reliable measured values. The large range makes additional types of sensor superfluous because they can also be used to implement special applications. In addition to error-free operation of 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.





1 = Switching Status Indicator

Sleeve 6,5 mm dia. = 8 Nm All dimensions in mm (1 mm = 0.03937 Inch)



Legend DT Distinum measuring resistor ENA Encoder A							
Legen			PT	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		(NO)	W	Trigger Input	Аок	Digital output OK	
Ā		(NC)	0	Analog Output	SY In	Synchronization In	
V		(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		а	Valve Control Output +	rsv	reserved	
Z	Time Delay (activation)		b	Valve Control Output 0 V			
S	Shielding		SY	Synchronization	Wire Colors according to		
RxD	Interface Receive Path		E+	Receiver-Line	DIN IEC 757		
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	
	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

