

I1DH006

Part Number

weproTec



- 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.

Technical Data

Inductive Data

Switching Distance	6 mm
Correction Factors Stainless Steel V2A/CuZn/Al	1,27/0,64/0,61
Mounting	flush
Mounting A/B/C/D in mm	0/14/18/0
Mounting B1 in mm	0...6
Switching Hysteresis	< 10 %

Electrical Data

Supply Voltage	10...30 V DC
Current Consumption (U _b = 24 V)	< 10 mA
Switching Frequency	910 Hz
Temperature Drift	< 10 %
Temperature Range	-40...80 °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

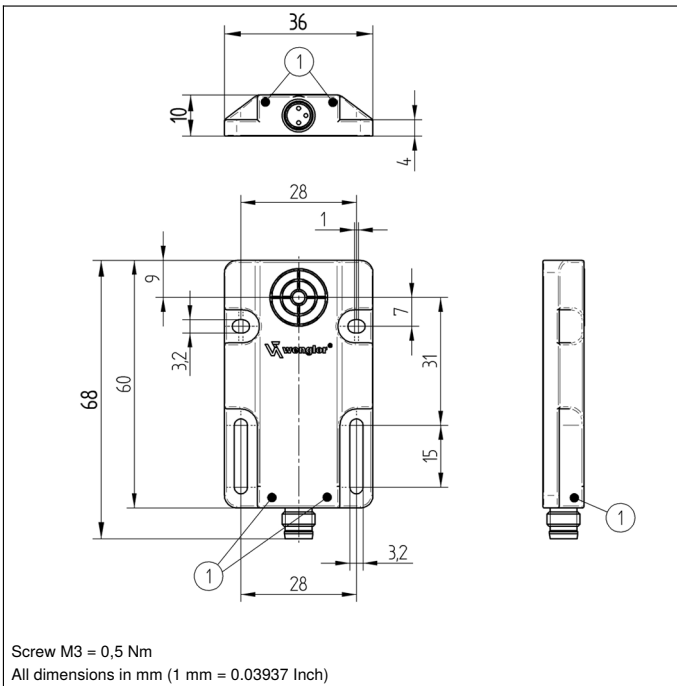
Housing Material	Plastic
Degree of Protection	IP67/IP68
Connection	M8 × 1; 3-pin

Safety-relevant Data

MTTFd (EN ISO 13849-1)	3706,54 a
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Function

Error Indicator	yes
NPN NO	●
Connection Diagram No.	302
Suitable Connection Equipment No.	8



Legend		
+	Supply Voltage +	PT Platinum measuring resistor
-	Supply Voltage 0 V	nc not connected
~	Supply Voltage (AC Voltage)	U Test Input
A	Switching Output (NO)	Ū Test Input inverted
Ā	Switching Output (NC)	W Trigger Input
V	Contamination/Error Output (NO)	W- Ground for the Trigger Input
Ṽ	Contamination/Error Output (NC)	O Analog Output
E	Input (analog or digital)	O- Ground for the Analog Output
T	Teach Input	BZ Block Discharge
Z	Time Delay (activation)	AWV Valve Output
S	Shielding	a Valve Control Output +
RxD	Interface Receive Path	b Valve Control Output 0 V
TxD	Interface Send Path	SY Synchronization
RDY	Ready	SY- Ground for the Synchronization
GND	Ground	E+ Receiver-Line
CL	Clock	S+ Emitter-Line
E/A	Output/Input programmable	± Grounding
	IO-Link	S_nR Switching Distance Reduction
PoE	Power over Ethernet	Rx+/- Ethernet Receive Path
IN	Safety Input	Tx+/- Ethernet Send Path
OSSD	Safety Output	Bus Interfaces-Bus A(+)/B(-)
Signal	Signal Output	L_a Emitted Light disengageable
Bl..D+/-	Ethernet Gigabit bidirect. data line (A-D)	Mag Magnet activation
EN0.6542z	Encoder 0-pulse 0-0 (TTL)	RES Input confirmation
		EDM Contactor Monitoring
		EN1.6542z Encoder A/Ā (TTL)
		EN2.6542z Encoder B/B̄ (TTL)
		EN_A Encoder A
		EN_B Encoder B
		A_{MIN} Digital output MIN
		A_{MAX} Digital output MAX
		A_{OK} Digital output OK
		SY_{in} Synchronization In
		SY_{OUT} Synchronization OUT
		OL_T Brightness output
		M Maintenance reserved
		rsv reserved
		Wire Colors according to IEC 60757
		BK Black
		BN Brown
		RD Red
		OG Orange
		YE Yellow
		GN Green
		BU Blue
		VT Violet
		GY Grey
		WH White
		PK Pink
		GNVE Green/Yellow

Mounting

