

Inductive Sensor with Increased Switching Distance

I12H052

Part Number



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

weproTec

Technical Data

Inductive Data

Switching Distance	4 mm
Correction Factors Stainless Steel V2A/CuZn/Al	1,02/0,54/0,52
Mounting	flush
Mounting A/B/C/D in mm	0/8/12/0
Mounting B1 in mm	0..2
Switching Hysteresis	< 10 %

Electrical Data

Supply Voltage	10...30 V DC
Current Consumption (Ub = 24 V)	< 7 mA
Switching Frequency	1100 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	CuZn, nickel-plated
Degree of Protection	IP67
Connection	M12 x 1; 4-pin

Safety-relevant Data

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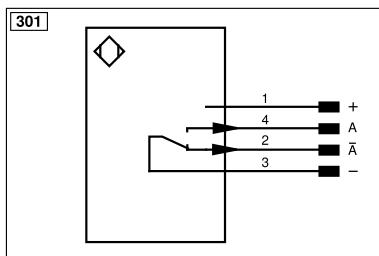
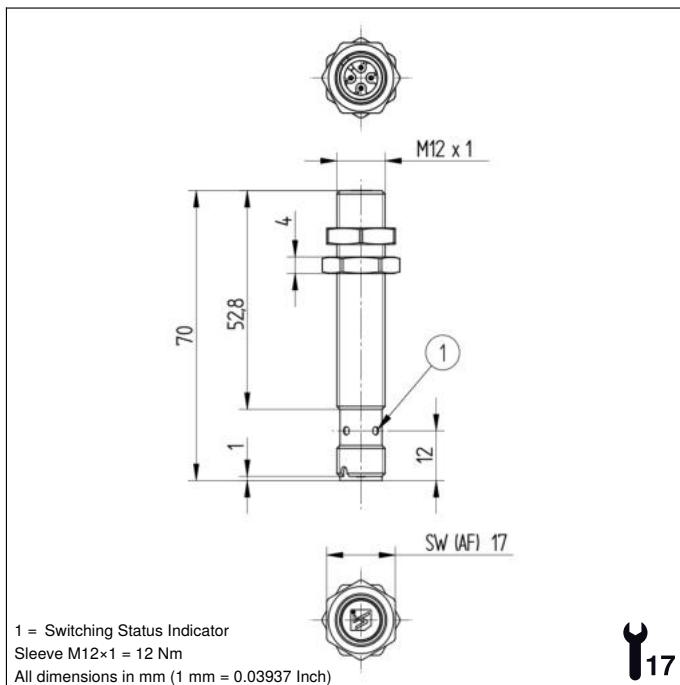
Function

Error Indicator	yes
NPN NO/NC antivalent	●
Connection Diagram No.	301
Suitable Connection Equipment No.	2

Suitable Mounting Technology No.

170 | 171

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.



Legend		Wire Colors according to DIN IEC 60757	
+	Supply Voltage +	nc	Not connected
-	Supply Voltage 0 V	U	Encoder B/B (TTL)
~	Supply Voltage (AC Voltage)	Ū	Encoder A
A	Switching Output (NO)	W	Encoder B
Ā	Switching Output (NC)	W̄	Digital output MIN
V	Contamination/Error Output (NO)	O	Digital output MAX
Ā̄	Contamination/Error Output (NC)	Ō	AOK
E	Input (analog or digital)	BZ	Synchronization IN
T	Teach Input	Amv	SY OUT
Z	Time Delay (activation)	a	Synchronization OUT
S	Shielding	b	OLR
RxD	Interface Receive Path	SY	Brightness output
TxD	Interface Send Path	SȲ	M
RDY	Ready	E+	Maintenance
GND	Ground	S+	rsv
CL	Clock	±	Reserved
E/A	Output/Input programmable	SnR	Wire Colors according to DIN IEC 60757
IO-Link		Rx+/-	BK Black
PoE	Power over Ethernet	Tx+/-	BN Brown
IN	Safety Input	Bus	RD Red
OSSD	Safety Output	La	OG Orange
Signal	Signal Output	Mag	YE Yellow
BI_D+/-	Ethernet Gigabit bidirect. data line (A-D)	RES	GN Green
EN0_RS422	Encoder 0-pulse 0/0 (TTL)	EDM	BU Blue
PT	Platinum measuring resistor	ENARS422	VT Violet
			GY Grey
			WH White
			PK Pink
			GNYE Green/Yellow

Mounting

