Inductive Sensor
with IO-Link

I08H026

Part Number

weproTec

- **Easy sensor configuration using the IO-Link interface**
- **Innovative ASIC circuit technology**
- **Integrated error display and error output**
- **Minimal mounting clearance thanks to wenglor weproTec**

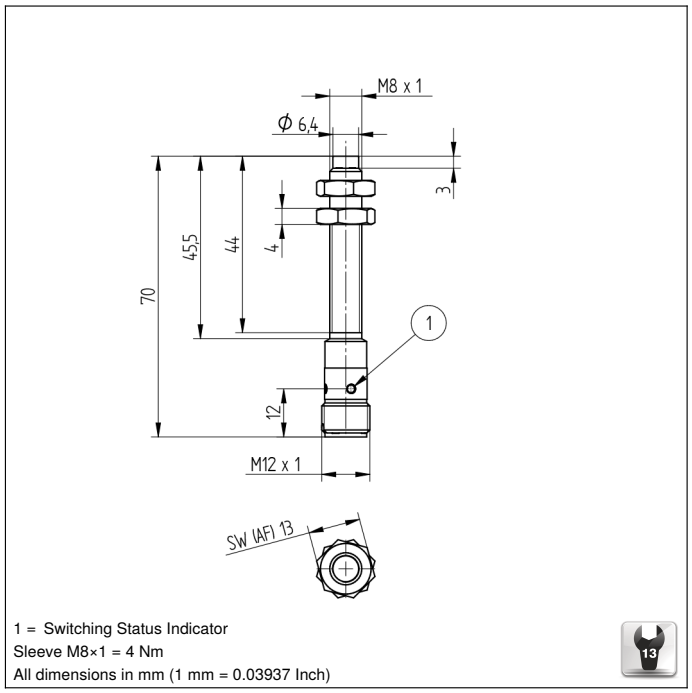
The Inductive Sensors have not only been equipped with ASIC, but rather with an IO-Link interface as well for ideal integration into networks. As a result, a total of three switching distances and two switching frequencies can be selected, and PNP/NPN as well as NO/NC/antivalent options can be set as desired. This reduces the number of variants while simultaneously expanding the scope of functions.

Technical Data

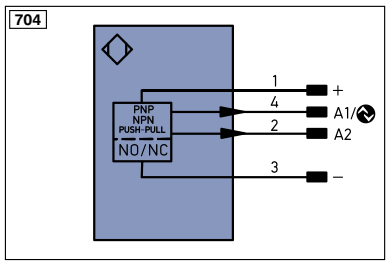
Inductive Data	
Switching Distance	6 mm
Standard Target	18 × 18 mm
Correction Factors Stainless Steel V2A/CuZn/Al	1,01/0,59/0,55
Mounting	non-flush
Mounting A/B/C/D in mm	8/25/18/12
Mounting B1 in mm	0...7
Switching Hysteresis	< 10 %
Electrical Data	
Supply Voltage	10...30 V DC
Supply Voltage with IO-Link	18...30 V DC
Current Consumption (Ub = 24 V)	< 11 mA
Switching Frequency	750 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
Interface	IO-Link V1.0
Protection Class	III
Mechanical Data	
Housing Material	CuZn, nickel-plated
Degree of Protection	IP67
Connection	M12 × 1; 4-pin
Safety-relevant Data	
MTTFd (EN ISO 13849-1)	3706,54 a
Function	
Error Indicator	yes
Programmable switching distance	4/5/6 mm
Programmable switching frequency	yes
IO-Link	●
Switchable to NC/NO	●
Configurable as PNP/NPN/Push-Pull	●
Error Output	●
Connection Diagram No.	704
Suitable Connection Technology No.	2
Suitable Mounting Technology No.	200, 203

Complementary Products

IO-Link Master
Software



1 = Switching Status Indicator
Sleeve M8×1 = 4 Nm
All dimensions in mm (1 mm = 0.03937 Inch)



Legend

+	Supply Voltage +		PT	Platinum measuring resistor		ENA	Encoder A
–	Supply Voltage 0 V		nc	not connected		ENB	Encoder B
~	Supply Voltage (AC Voltage)		U	Test Input		AMIN	Digital output MIN
A	Switching Output	(NO)	Ū	Test Input inverted		AMAX	Digital output MAX
Ā	Switching Output	(NC)	W	Trigger Input		AOK	Digital output OK
V	Contamination/Error Output	(NO)	O	Analog Output		SY In	Synchronization In
V̄	Contamination/Error Output	(NC)	O–	Ground for the Analog Output		SY OUT	Synchronization OUT
E	Input (analog or digital)		BZ	Block Discharge		OLT	Brightness output
T	Teach Input		AMV	Valve Output		M	Maintenance
Z	Time Delay (activation)		a	Valve Control Output +			
S	Shielding		b	Valve Control Output 0 V			
RxD	Interface Receive Path		SY	Synchronization			
TxD	Interface Send Path		E+	Receiver-Line			
RDY	Ready		S+	Emitter-Line			
GND	Ground		⏚	Grounding			
CL	Clock		SnR	Switching Distance Reduction			
E/A	Output/Input programmable		Rx+/–	Ethernet Receive Path			
	IO-Link		Tx+/–	Ethernet Send Path			
PoE	Power over Ethernet		Bus	Interfaces-Bus A(+)/B(–)			
IN	Safety Input		La	Emitted Light disengageable			
OSSD	Safety Output		Mag	Magnet activation			
Signal	Signal Output		RES	Input confirmation			
Bl_D+/-	Ethernet Gigabit bidirect. data line (A-D)		EDM	Contactor Monitoring			
EN0 RS422	Encoder 0-pulse 0-0̄ (TTL)		ENA RS422	Encoder A/Ā (TTL)			
			ENB RS422	Encoder B/B̄ (TTL)			

Wire Colors according to DIN IEC 757

BK	Black
BN	Brown
RD	Red
OG	Orange
YE	Yellow
GN	Green
BU	Blue
VT	Violet
GY	Grey
WH	White
PK	Pink
GNYE	Green/Yellow

Mounting