## I18H011

Part Number



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

Technical Data

**wepro**Tec

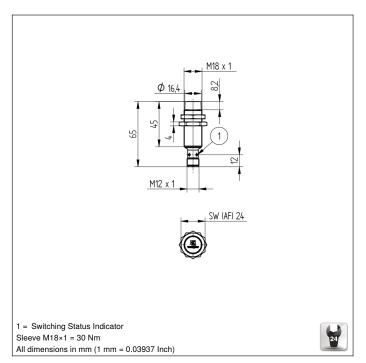
recillical Data				
Inductive Data				
Switching Distance	20 mm			
Correction Factors Stainless Steel V2A/CuZn/Al	0,92/0,47/0,46			
Mounting	non-flush			
Mounting A/B/C/D in mm	24/60/60/20			
Mounting B1 in mm 240				
Switching Hysteresis	< 10 %			
Electrical Data				
Supply Voltage	1030 V DC			
Current Consumption (Ub = 24 V)	< 11 mA			
Switching Frequency	380 Hz			
Temperature Drift	< 10 %			
Temperature Range	-4080 °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 × 1; 3-pin			
Safety-relevant Data				
MTTFd (EN ISO 13849-1)	3706,54 a			
Function				
Error Indicator	yes			
PNP NO	•			
Connection Diagram No.	102			
Suitable Connection Technology No.	2			
Suitable Mounting Technology No.	150   153			

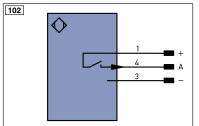
Inductive Sensors with increased switching distances are distinguished by rugged design, easy installation and reliable measured values. The large range makes additional types of sensor superfluous because they can also be used to implement special applications. In addition to error-free operation of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

## **Complementary Products**

PNP-NPN Converter BG2V1P-N-2M







Legend			PT	Platinum measuring resistor	ENA	Encoder A
+	Supply Voltage +		nc	not connected	ENB	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		VO)	W	Trigger Input	Аок	Digital output OK
Ā		/	0	Analog Output	SY In	Synchronization In
٧		- /	0-	Ground for the Analog Output	SY OUT	
V		NC)	BZ	Block Discharge	OLT	Brightness output
E	Input (analog or digital)		Awv	Valve Output	М	Maintenance
Т	Teach Input		а	Valve Control Output +		
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
•	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		White
BI_D+/-	Ethernet Gigabit bidirect. data li	ne (A-D)	ENARS422	Encoder A/Ā (TTL)	PK	Pink
ENors42	Encoder 0-pulse 0-0 (TTL)			Encoder B/B (TTL)	GNYE	Green/Yellow

## Mounting

