

Inductive Sensor with Increased Switching Distance

I18H033

Part Number

weproTec

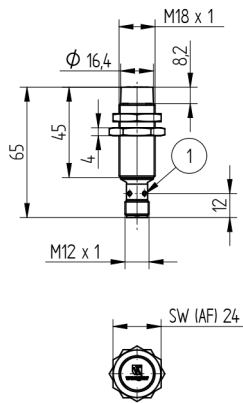


- Increased switching distance
- Innovative ASIC circuit technology
- Integrated error display
- Minimal mounting clearance thanks to wenglor weproTec

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

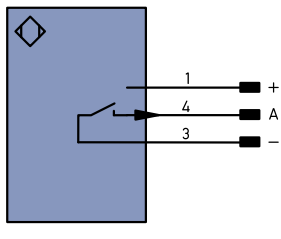
Inductive Data	
Switching Distance	20 mm
Correction Factors Stainless Steel V2A/CuZn/Al	0,92/0,47/0,46
Mounting	non-flush
Mounting A/B/C/D in mm	24/60/60/20
Mounting B1 in mm	2...40
Switching Hysteresis	< 10 %
Electrical Data	
Supply Voltage	10...30 V DC
Current Consumption (U _b = 24 V)	< 11 mA
Switching Frequency	380 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 × 1; 3-pin
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 NO	●
Connection Diagram No.	302
Suitable Connection Equipment No.	2
Suitable Mounting Technology No.	150 153



1 = Switching Status Indicator
 Sleeve M18x1 = 30 Nm
 All dimensions in mm (1 mm = 0.03937 Inch)



302



Legend

+ Supply Voltage +	nc not connected	ENa Encoder A
- Supply Voltage 0 V	U Test Input	ENb Encoder B
~ Supply Voltage (AC Voltage)	U Test Input inverted	AMIN Digital output MIN
A Switching Output (NO)	W Trigger Input	AMAX Digital output MAX
Ā Switching Output (NC)	O Analog Output	AOK Digital output OK
V Contamination/Error Output (NO)	O- Ground for the Analog Output	SY In Synchronization In
V̄ Contamination/Error Output (NC)	BZ Block Discharge	SY OUT Synchronization OUT
E Input (analog or digital)	AWV Valve Output	Ort Brightness output
T Teach Input	a Valve Control Output +	M Maintenance
Z Time Delay (activation)	b Valve Control Output 0 V	rsv reserved
S Shielding	SY Synchronization	
RxD Interface Receive Path	E+ Receiver-Line	Wire Colors according to 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	WH White
Bl..D +/- Ethernet Gigabit bidirect. data line (A-D)	ENaRS422 Encoder A/Ā (TTL)	PK Pink
EN0RS422 Encoder 0-pulse 0-0 (TTL)	ENbRS422 Encoder B/B̄ (TTL)	GNYE Green/Yellow

Mounting

