

Inductive Sensor
with Analog Output

IW045CM65MG3

Part Number

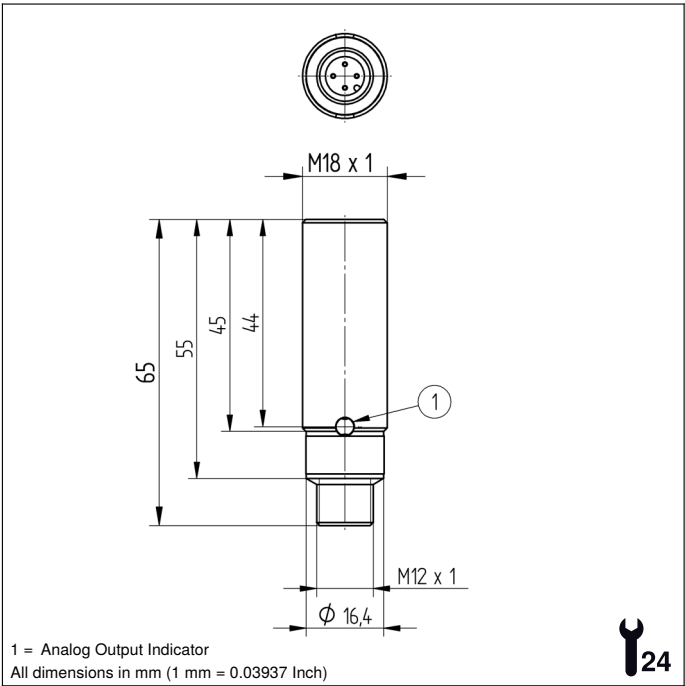


Technical Data

Inductive Data		
Working Range	1,5...4,5 mm	
Measuring Distance	3 mm	
Measuring Range	3 mm	
Correction Factors Stainless Steel V2A/CuZn/Al	1,2/1,2/1,2	
Mounting	Flush	
Mounting A/B/C/D in mm	0/18/13,5/0	
Standard Target FE360, thickness 1 mm	18 × 18 mm	
Linearity	< 1 %	
Resolution	1 μm	
Electrical Data		
Supply Voltage	18...30 V DC	
Current Consumption (Ub = 24 V)	< 30 mA	
Cut-Off Frequency	900 Hz	
Temperature Drift (-10 °C < Tu ≤ 50 °C)	5 μm/K	
Temperature Drift (50 °C < Tu ≤ 70 °C)	6 μm/K	
Temperature Range	-10...70 °C	
Analog Output	0...10 V	
Load Current Voltage Output	< 1 mA	
Resistant to Magnetic Fields	yes	
Short Circuit Protection	yes	
Reverse Polarity Protection	yes	
Protection Class	III	
Mechanical Data		
Housing Material	Brass, nickel-plated	
Sensing face	Plastic, PBT	
Full Encapsulation	yes	
Degree of Protection	IP67	
Connection	M12 × 1; 4-pin	
Stock Type		
Packaging unit	1 Piece	
Analog Output		
Connection Diagram No.		
Suitable Connection Equipment No.		2
Suitable Mounting Technology No.		150

Complementary Products

Analog Evaluation Unit AW02
IO-Link converter



Legend					
+	Supply Voltage +	PT	Platinum measuring resistor	ENAR5422	Encoder A/Ä (TTL)
-	Supply Voltage 0 V	nc	Not connected	ENBR5422	Encoder B/ß (TTL)
~	Supply Voltage (AC Voltage)	U	Test Input	ENa	Encoder A
A	Switching Output (NO)	Ü	Test Input inverted	ENb	Encoder B
Ä	Switching Output (NC)	W	Trigger Input	AMIN	Digital output MIN
V	Contamination/Error Output (NO)	W-	Ground for the Trigger Input	AMAX	Digital output MAX
ÿ	Contamination/Error Output (NC)	O	Analog Output	AOK	Digital output OK
E	Input (analog or digital)	O-	Ground for the Analog Output	SY In	Synchronization In
T	Teach Input	BZ	Block Discharge	SY OUT	Synchronization OUT
R	Reset input	Amv	Valve Output	Qlt	Brightness output
Z	Time Delay (activation)	a	Valve Control Output +	M	Maintenance
S	Shielding	b	Valve Control Output 0 V	rsv	Reserved
RxD	Interface Receive Path	SY	Synchronization	Wire Colors according to DIN IEC 60757	
TxD	Interface Send Path	SY-	Ground for the Synchronization		
RDY	Ready	E+	Receiver-Line	BK	Black
GND	Ground	S+	Emitter-Line	BN	Brown
CL	Clock	≡	Grounding	RD	Red
E/A	Output/Input programmable	SnR	Switching Distance Reduction	OG	Orange
	IO-Link	Rx+/-	Ethernet Receive Path	YE	Yellow
PoE	Power over Ethernet	Tx+/-	Ethernet Send Path	GN	Green
IN	Safety Input	Bus	Interfaces-Bus A(+)/B(-)	BU	Blue
QSSD	Safety Output	La	Emitted Light disengageable	VT	Violet
Signal	Signal Output	Mag	Magnet activation	GY	Grey
BI_D+/-	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation	WH	White
ENo RS422	Encoder 0-pulse 0/0 (TTL)	EDM	Contact Monitoring	PK	Pink
				GNYE	Green/Yellow

Mounting

