

Inductive Sensor

with Analog Output

IX080CM65MG3

Part Number

Technical Data

Inductive Data

Working Range	2...8 mm
Measuring Distance	5 mm
Measuring Range	6 mm
Correction Factors Stainless Steel V2A/CuZn/Al	1,1/1,1/1,1
Mounting	Flush
Mounting A/B/C/D in mm	0/30/24/0
Standard Target FE360, thickness 1 mm	30 × 30 mm
Linearity	< 1 %
Resolution	2 µm

Electrical Data

Supply Voltage	18...30 V DC
Current Consumption (U _b = 24 V)	< 30 mA
Cut-Off Frequency	900 Hz
Temperature Drift	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.

130

Complementary Products

Analog Evaluation Unit AW02

IO-Link converter

1 = Analog Output Indicator
All dimensions in mm (1 mm = 0.03937 Inch)



Legend					
+	Supply Voltage +	PT	Platinum measuring resistor	ENAR _{RS422}	Encoder A/Ā (TTL)
–	Supply Voltage 0 V	nc	Not connected	ENBR _{RS422}	Encoder B/B̄ (TTL)
~	Supply Voltage (AC Voltage)	U	Test Input	ENa	Encoder A
A	Switching Output (NO)	Ū	Test Input inverted	ENb	Encoder B
Ā	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
Ū	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	OLT	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
BL_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

