










# IXARC ROTARY ENCODERS

## Product Overview – Ethernet Encoders

		Max. Protection Class	Max. Revolutions (Turns)	Max. Resolution in bit	Accuracy / Linearity (±)	Flange Size in mm [in]	Clamp Flange	Synchro Flange	Hollow Flange	Square Flange	Supply Voltage in V	Cable	Connector	Connection Cap	Shock / Vibration in g	Radial Shaft Load in N
	➤ Magnetic	IP65	65536	16	0.09°	58 [2.28]	■	■	■	■	10-30		■	■	100	110
	➤ Profinet	IP66				63.5 [2.5]									10	
	➤ Up to 16 bit	IP67														
	➤ Magnetic	IP65	65536	16	0.09°	58 [2.28]	■	■	■	■	10-30		■	■	100	110
	➤ EtherCAT	IP66				63.5 [2.5]									10	
	➤ Up to 16 bit	IP67														
	➤ Magnetic	IP65	65536	16	0.09°	58 [2.28]	■	■	■	■	10-30		■	■	100	110
	➤ Powerlink	IP66				63.5 [2.5]									10	
	➤ Up to 16 bit	IP67														
	➤ Optical	IP65	16384	16	0.022°	58 [2.28]	■	■	■	■	10-30		■	■	100	110
	➤ Profinet	IP66				63.5 [2.5]									10	
	➤ Up to 16 bit	IP67														
	➤ Optical	IP65	16384	16	0.022°	58 [2.28]	■	■	■	■	10-30		■	■	100	110
	➤ EtherNet/IP	IP66				63.5 [2.5]									10	
	➤ Up to 16 bit	IP67														
	➤ Optical	IP65	16384	16	0.022°	58 [2.28]	■	■	■	■	10-30		■	■	100	110
	➤ EtherCAT	IP66				63.5 [2.5]									10	
	➤ Up to 16 bit	IP67														
	➤ Optical	IP65	65536	16	0.022°	58 [2.28]	■	■	■	■	10-30		■	■	100	110
	➤ Powerlink	IP66				63.5 [2.5]									10	
	➤ Up to 16 bit	IP67														
	➤ Optical	IP65	16384	16	0.022°	58 [2.28]	■	■	■	■	10-30		■	■	100	110
	➤ Modbus/TCP	IP66				63.5 [2.5]									10	
	➤ Up to 16 bit	IP67														

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# IXARC ROTARY ENCODERS

## Product Selection Guide – Ethernet Encoders



### 1 Accuracy (Technology)

**U** ≤ 0.09° (Magnetic)

**O** ≤ 0.022° (Optical)

### 2 Communication Interface

**EIB1B** Profinet

**EEA1B** EtherNet/IP

**E2A2B** Powerlink

**EC00B** EtherCAT

**EM00B** Modbus/TCP + TCP/IP

### 3 Revolution

**00** Singleturn

**12** Multiturn: 12 bit (4096 rev)

**14** Multiturn: 14 bit (16384 rev)

### 4 Resolution

**13** 13 bit (8192 Steps / 0.044°)

**16** 16 bit (65536 Steps / 0.005°)

### 5 Mechanical Design and Protection Class

Blind Hollow Shaft (Page 36)

Synchro (Page 43)

Clamp (Page 50)

Square (Page 59)

### 6 Connection Type

**PRM** Connector: Radial 2 x M12 (Modbus)

**PRM** Connector: Radial 3 x M12

**PAM** Connector: Axial 3 x M12



### > Rugged Connectors and Cables

- Reliable Electrical Connections
- M12 & M23 Data, Bus and Signal Connectors
- Straight and Angled Versions
- Variety of Cable Material and Lengths
- Shielded for Protection Against Noise and Interference

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