









IXARC ROTARY ENCODERS

Product Overview – Fieldbus 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	IP69K	65536	16	0.09°	36 [1.42]	■	■	■		9–32	■	■	■	300	300
	➤ CANopen	IP68				42 [1.65]									30	
	➤ SAE J1939															
	➤ Magnetic	IP65	65536	16	0.09°	36 [1.42]	■	■	■	■	9–32	■	■		300	180
	➤ CANopen	IP66				58 [2.28]									30	
	➤ SAE J1939	IP67				(More p. 36)										
	➤ Magnetic	IP65	65536	16	0.09°	58 [2.28]	■	■	■	■	10–30		■	■	100	110
	➤ Profibus	IP66				63.5 [2.5]									10	
	➤ Up to 16 bit	IP67														
	➤ Optical	IP65	65536	16	0.09°	36 [1.42]	■	■	■	■	10–30	■	■		100	110
	➤ DeviceNet					58 [2.28]									10	
	➤ Up to 16 bit															
	➤ Optical	IP65	16384	16	0.022°	52.3 [2]	■	■	■	■	10–30	■	■	■	100	110
	➤ Profibus	IP66				58 [2.28]									10	
	➤ Up to 16 bit	IP67				63.5 [2.5]										
	➤ Optical	IP65	16384	16	0.022°	58 [2.28]	■	■	■	■	10–30	■	■	■	100	110
	➤ Interbus	IP66				63.5 [2.5]									10	
	➤ Up to 16 bit	IP67														
	➤ Optical	IP65	16384	16	0.022°	52.3 [2]	■	■	■	■	10–30	■	■	■	100	110
	➤ CANopen	IP66				58 [2.28]									10	
	➤ Up to 16 bit	IP67				63.5 [2.5]										

➤ Related Industries



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PRODUCT FINDER

IXARC ROTARY ENCODERS

Product Selection Guide – Fielbus Encoders



1 Accuracy (Technology)

- U** ≤ 0.09° (Magnetic)
- O** ≤ 0.022° (Optical)

2 Communication Interface

- DPC1B** Profibus (Optical, Magnetic)
- CA01B** CANopen (Magnetic)
- CAA1B** CANopen (Optical)
- CTx1B** CANopen+Incr. RS422 (TTL)
- CHx1B** CANopen+Incr. Push-Pull (HTL)
- CL00B** CANopen Lift (Magnetic)
- C900B** SAE J1939
- D2B1B** DeviceNet (Optical)
- IBA1B** Interbus (Optical)

3 Revolution

- 00** Singleturn
- 12** Multiturn: 12 bit (4096 rev)
- 13** Multiturn: 13 bit (8192 rev)
- 14** Multiturn: 14 bit (16384 rev)
- 15** Multiturn: 15 bit (32768 rev)

4 Resolution

- 12** 12 bit (4096 Steps / 0.088°)
- 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)
- Through Hollow (Page 58)
- Square (Page 59)

6 Connection Type

- CAW** Cable: Axial 1 m
- 2AW** Cable: Axial 2 m
- 5AW** Cable: Axial 5 m
- AAW** Cable: Axial 10 m
- CRW** Cable: Radial 1 m
- 2RW** Cable: Radial 2 m
- 5RW** Cable: Radial 5 m
- ARW** Cable: Radial 10 m
- PAM** Connector: Axial M12, 5 pin (CANopen, CANopen Lift)
- PAV** Connector: Axial M12, 5 pin, Status LED (CANopen, CANopen Lift)
- PAM** Connector: Axial 3 x M13 (Profibus)
- PAQ** Connector: Axial M12, 8 pin (CAN+Incr.)
- PRM** Connector: Radial M12, 5 pin
- PRV** Connector: Radial M12, 5 pin, Status LED (CANopen, CANopen Lift)
- PRQ** Connector: Radial M12, 8 pin (CAN+Incr.)
- PR8** Connector: Radial 2xM12, 5pin + 8pin (CAN+Incr.)
- PRI** Connector: Radial 2 x M23, 9 pin (Interbus)
- H3P** Connection Cap: 3 Cable Glands
- H1B** Connection Cap: 1 x M12 Connector
- H2B** Connection Cap: 2 x M12 Connectors
- H72** Connection Cap: 3 x M12 Connectors
- H1C** Connection Cap: 1 x M23 Connector (DeviceNet)
- H2M** Connection Cap: 2 x M20 Cable Glands
- HCC** Without Connection Cap