

IXARC ROTARY ENCODERS

Product Overview – Ex-Proof Encoders ATEX/IECEX Certified

			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
	> Zone 1 & 21 (Mining)		IP67	16384	16	0.022°	78 [3.07]	■	■	■	■	10–30		■	100	50
	> Various Interfaces														10	
	> Optical															
	> Zone 1 & 21 (Oil+Gas)		IP67	16384	16	0.022°	78 [3.07]	■	■	■	■	10–30		■	100	50
	> Various Interfaces														10	
	> Optical															
	> Zone 1 & 21 (Mining)		IP67	16384	16	0.022°	78 [3.07]	■	■	■	■	4.5–30		■	100	50
	> Profinet														10	
	> Optical															
	> Zone 1 & 21 (Oil+Gas)		IP67	16384	16	0.022°	78 [3.07]	■	■	■	■	4.5–30		■	100	50
	> Profinet														10	
	> Optical															
	> Zone 2 & 22		IP67	16384	16	0.022°	58 [2.28]	■	■	■		4.5–30		■	100	110
	> All Interfaces														10	
	> Optical, Magnetic															

> Related Industries



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**PRODUCT
FINDER**

IXARC ROTARY ENCODERS

Product Selection Guide – Ex-Proof Encoders ATEX/IECEX Certified

1	2	3	4	5	6	7
X	C	X	-	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	X

1 Accuracy (Technology)

U ≤ 0.09° (Magnetic)

O ≤ 0.022° (Optical)

2 Certificate

E Zone 1 & 21 (Oil+Gas)

M Zone 1 & 21 (Mining)

F Zone 2 & 22

3 Communication Interface

IPT00 Default RS422 (TTL) , Programmable HTL/TTL

IPH00 Default Push-Pull (HTL), Programmable HTL/TTL

S101B SSI Binary

S101G SSI Gray

AV001 Voltage: 0 to 5 V

AV002 Voltage: 0 to 10 V

AV003 Voltage: 0.5 to 4.5 V

AV004 Voltage: 0.5 to 9.5 V

AC005 Current: 4 to 20 mA

AC006 Current: 0 to 20 mA

DPC1B Profibus

CAA1B CANopen

D2B1B DeviceNet

EIB1B Profinet

EEA1B EtherNet/IP

E2A2B Powerlink

EC00B EtherCAT

4 Revolution

00 Singleturn

04 Multiturn: 4 bit (16 rev)

08 Multiturn: 8 bit (256 rev)

12 Multiturn: 12 bit (4096 rev)

14 Multiturn: 14 bit (16384 rev)

5 Resolution

12 12 bit (4096 Steps / 0.088°)

13 13 bit (8192 Steps / 0.044°)

16 16 bit (65536 Steps / 0.005°)

6 Mechanical Design and Protection Class

Blind Hollow Shaft (Page 36)

Synchro (Page 43)

Clamp (Page 50)

Through Hollow (Page 58)

Square (Page 59)

7 Connection Type

CAW Cable: Axial 1 m (Zone 1 & 21)

2AW Cable: Axial 2 m (Zone 1 & 21)

5AW Cable: Axial 5 m (Zone 1 & 21)

AAW Cable: Axial 10 m (Zone 1 & 21)

CRW Cable: Radial 1 m (Zone 1 & 21)

2RW Cable: Radial 2 m (Zone 1 & 21)

5RW Cable: Radial 5 m (Zone 1 & 21)

ARW Cable: Radial 10 m (Zone 1 & 21)

CAE Cable: Axial 1 m (Zone 2 & 22)

2AE Cable: Axial 2 m (Zone 2 & 22)

5AE Cable: Axial 5 m (Zone 2 & 22)

AAE Cable: Axial 10 m (Zone 2 & 22)

CRE Cable: Radial 1 m (Zone 2 & 22)

2RE Cable: Radial 2 m (Zone 2 & 22)

5RE Cable: Radial 5 m (Zone 2 & 22)

ARE Cable: Radial 10 m (Zone 2 & 22)

HFG Connection Cap: 2 x Axial Blind Plug

HFZ Connection Cap: 2 x Radial Blind Plug

HFE Connection Cap: 3 x Radial Blind Plug

H3E Connection Cap: 3 Cable Glands (Zone 2 & 22)