

SERIES AR62/AR63

ACURO™ brand

Magnetic Absolute Encoder

Key Features

- 12 Bit Single-Turn Resolution, up to 16 Bit Multi-Turn
- Oversized Bearings for up to 3x Life of Standard Absolute Encoders
- Wide -40° to 100°C Temperature Range
- Submersible — IP69k Sealing Available
- Rated to 200g Shock, 20g Vibration for Harsh Environments
- Stainless Steel or Aluminum Housing



SPECIFICATIONS

ELECTRICAL

Supply voltage: 5VDC, 10-30VDC, or 17-30VDC (see "Ordering Information")

EMC: EN 61326 (external protective circuit required)

Resolution singleturn: 12 Bit

Resolution multiturn: 12, 13, 16 Bit

Absolute accuracy: $\pm 0.6^{\circ}$

Repeatability: $\pm 0.2^{\circ}$

Parametrization: Preset

MECHANICAL

Housing diameter: 58 mm

Mounting depth: 32 mm

Shaft diameter: 3/8", 10 mm

Flange: Synchro clamping or 2.5" Square flange

Protection Class (EN 60529): Housing & Shaft, IP67 or IP69k

Shaft load: axial 300 N max.; radial 300 N max.

ENVIRONMENTAL

Shaft speed (maximum): 5000 rpm

Vibration resistance: (DIN EN 60068-2-6)

200 m/s²

Shock resistance: (DIN EN 60068-2-27) 2000 m/s² (6 ms)

Operating temperature: -40°C to $+100^{\circ}\text{C}$

Connection: Cable, radial; M12 connector, radial

ELECTRICAL CONNECTIONS – BiSS / SSI

Cable Color	PIN	Signal
Yellow	6	Clock
Pink	5	Data
Green	4	Clock
Grey	8	Data
White	1	UB
Brown	2	0V
Red	3	Preset (set to 0)
Screen	Screen	Screen

ELECTRICAL CONNECTIONS – CANopen

Color cable	PIN	Signal
Yellow	6	CAN in+
Green	4	CAN in-
Pink	3	CAN out+
Grey	7	CAN out-
Blue	n.c.	n.c.
Red	n.c.	n.c.
White	1	UB
Brown	2	0 V
Screen	Screen	Screen Screen

ELECTRICAL CONNECTIONS – Analog

Cable Color	PIN	Signal
Pink	6	0 to 10 V (max. 5mA)
Blue	7	0 to 20 mA or 4 to 20 mA (current output)
Grey	5	AGND
Red	8	preset (set to 0)
White	1	UB
Brown	2	0 V
Yellow ¹	4	Diagnostic 1
Green ¹	3	Diagnostic 2
Screen	Screen	Screen

¹ Diagnostic signals only for service purposes. The cable wires have to be isolated.

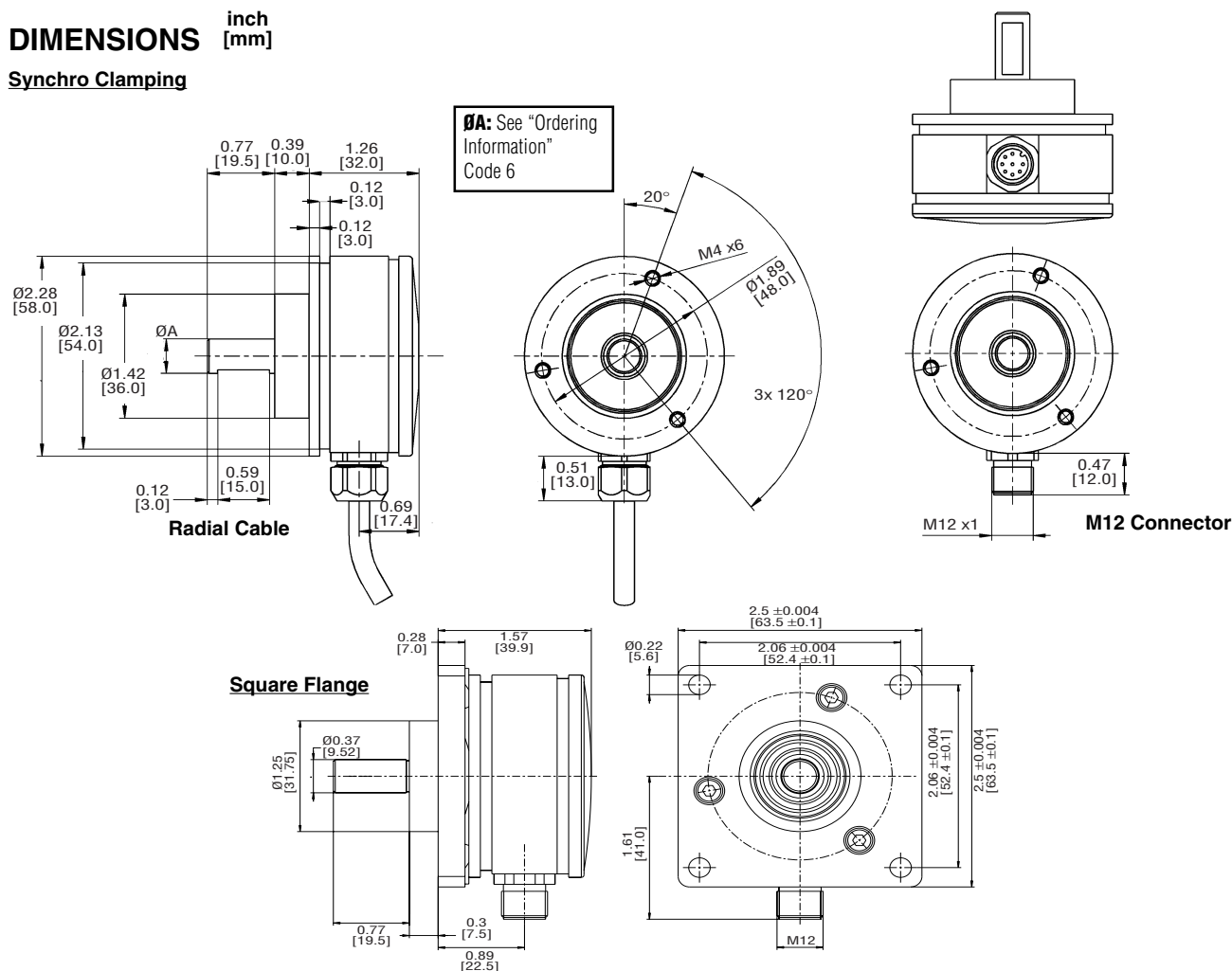
Ordering Information

To order, complete the model number with code numbers from the table below:

Code 1: Model	Code 2: Resolution	Code 3: Voltage	Code 4: Mounting	Code 5: Protection	Code 6: Shaft Size	Code 7: Interface	Code 8: Connection	Code 9: Cable Length
Ordering Information								
AR62	□□12	□	□	□	□	□□	□	□□
AR62 Aluminum	0012 12 bit single-turn	A 5 VDC E 10-30VDC	L Synchro, Clamping	7 IP67 9 IP69k	2 10mm "2" is available only when Code 4 is L	BI BiSS SG SSI-Gray SB SSI-Binary OL CAN Open	B Radial Cable Available when Code 1 is AR62 and code 5 is 7	Blank 1.5m DO 3m
AR63 Stainless	1212 12 bit single turn, 12 bit multi-turn 1312 12 bit single turn, 13 bit multi-turn 1612 12 bit single turn, 16 bit multi-turn	"F" is available only when Code 7 is AV or A4 F 17-30VDC	Q Square Flange		6 3/8" "6" is available only when Code 4 is Q	Available only when Code 2 is 0012, 1212, or 1612 AV Analog, 0-10V A4 Analog, 4-20mA	8 M12 radial connector, 8-pin	FO 5m KO 10m PO 15m UO 20m VO 25m WO 30m XO 40m YO 50m

DIMENSIONS inch
[mm]

Synchro Clamping



Satellite Locations:

• North America: North Carolina, South Carolina, Connecticut, Massachusetts, New York, Canada, St. Kitts • Europe: United Kingdom, Italy, France, Germany, Spain, Slovakia
• Latin America: Brazil • Asia: China, Japan, Korea, Singapore

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