NEW for 2009!

SERIES AR62/AR63 ACURO™ brand

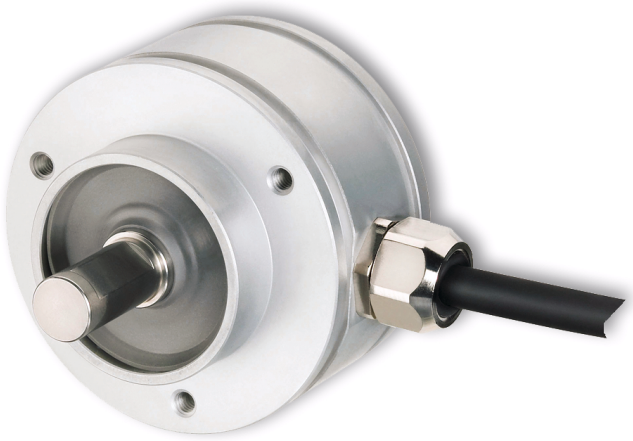
Magnetic Absolute Encoder

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**

CE EN 61326

RoHS



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: ±0.6°
Repeatability: ±0.2°
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 °C
Connection: Cable, radial; M12 connector, radial

ELECTRICAL CONNECTIONS – BiSS / SSI

Cable Color	PIN	Signal
Yellow	6	Clock
Pink	5	Data
Green	4	$\overline{\text{Clock}}$
Grey	8	$\overline{\text{Data}}$
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-
Bue	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 ouput)
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.

ACURO™ brand SERIES AR62/AR63

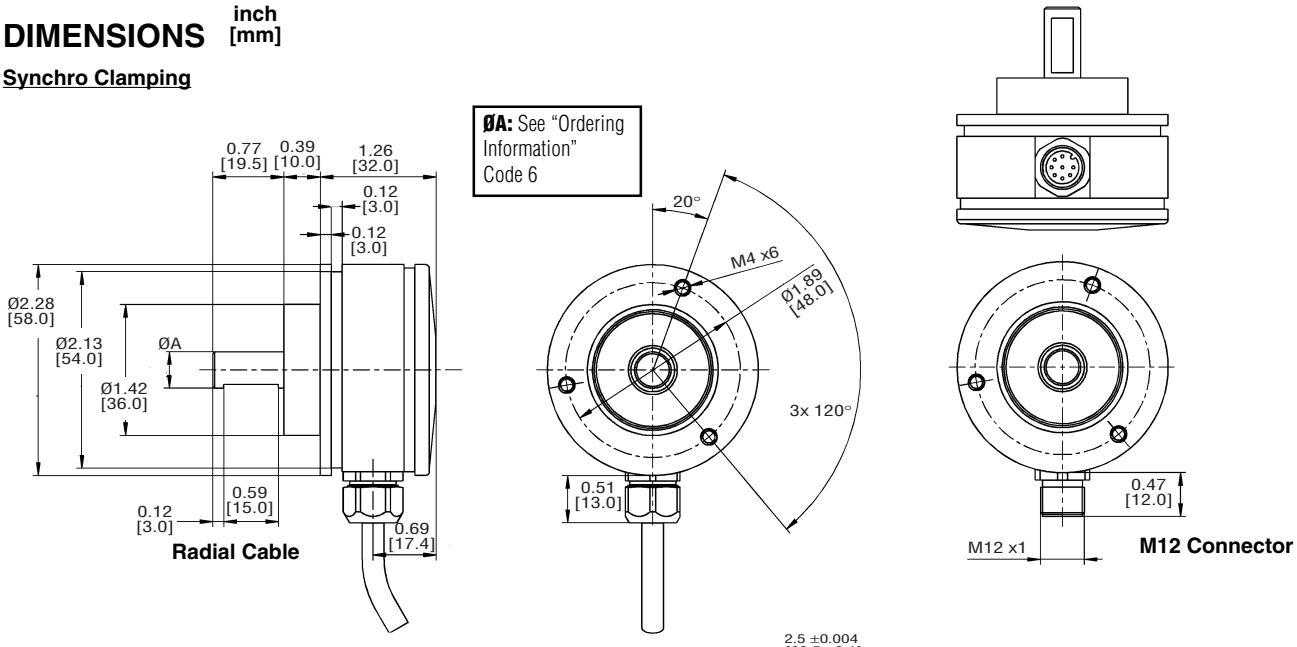
Ordering Information

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

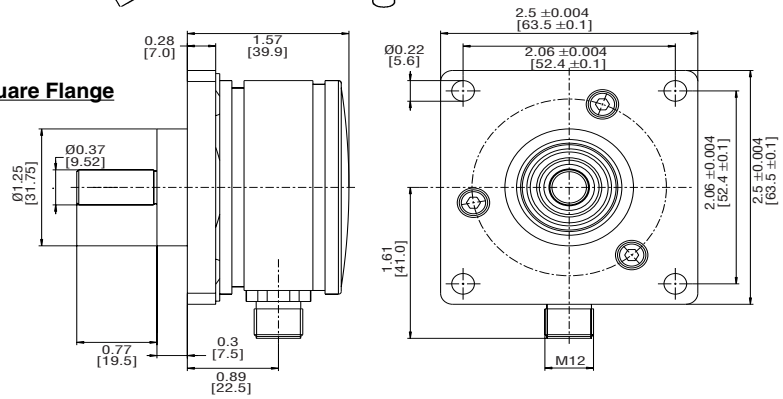
Code 1: Model	Code 2: Resolution	Code 3: Voltage	Code 4: Mounting	Code 5: Protection	Code 6: Shaft Size	Code 7: Interface	Code 8: Connection	Code 9: Cable Length
Ordering Information								
AR62	□□12	□	□	□	□	□□	□	□□
AR62 Aluminum **AR63** Stainless	**0012** 12 bit single-turn **1212** 12 bit single turn, 12 bit multi-turn **1312** 12 bit single turn, 13 bit multi-turn **1612** 12 bit single turn, 16 bit multi-turn	**A** 5 VDC **E** 10-30VDC "F" is available only when Code 7 is AV or A4 **F** 17-30VDC	**L** Synchro, Clamping **Q** Square Flange	**7** IP67 **9** IP69k	**2** 10mm "2" is available only when Code 4 is L **6** 3/8" "6" is available only when Code 4 is Q	**BI** BiSS **SG** SSI-Gray **SB** SSI-Binary **OL** CAN Open Available only when Code 2 is 0012, 1212, or 1612 **AV** Analog, 0-10V **A4** Analog, 4-20mA	**B** Radial Cable Available when Code 1 is AR62 and code 5 is 7 **8** M12 radial connector, 8-pin	**Blank** 1.5m **D0** 3m **F0** 5m **K0** 10m **P0** 15m **U0** 20m **V0** 25m **W0** 30m **X0** 40m **Y0** 50m

DIMENSIONS inch [mm]

Synchro Clamping



Square Flange



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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