NEW for 2009!

# SERIES AR62/AR63 ACURO™ brand

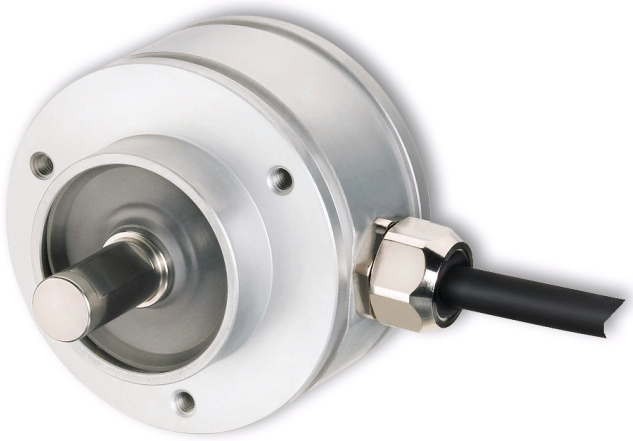
## Magnetic Absolute Encoder

### 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

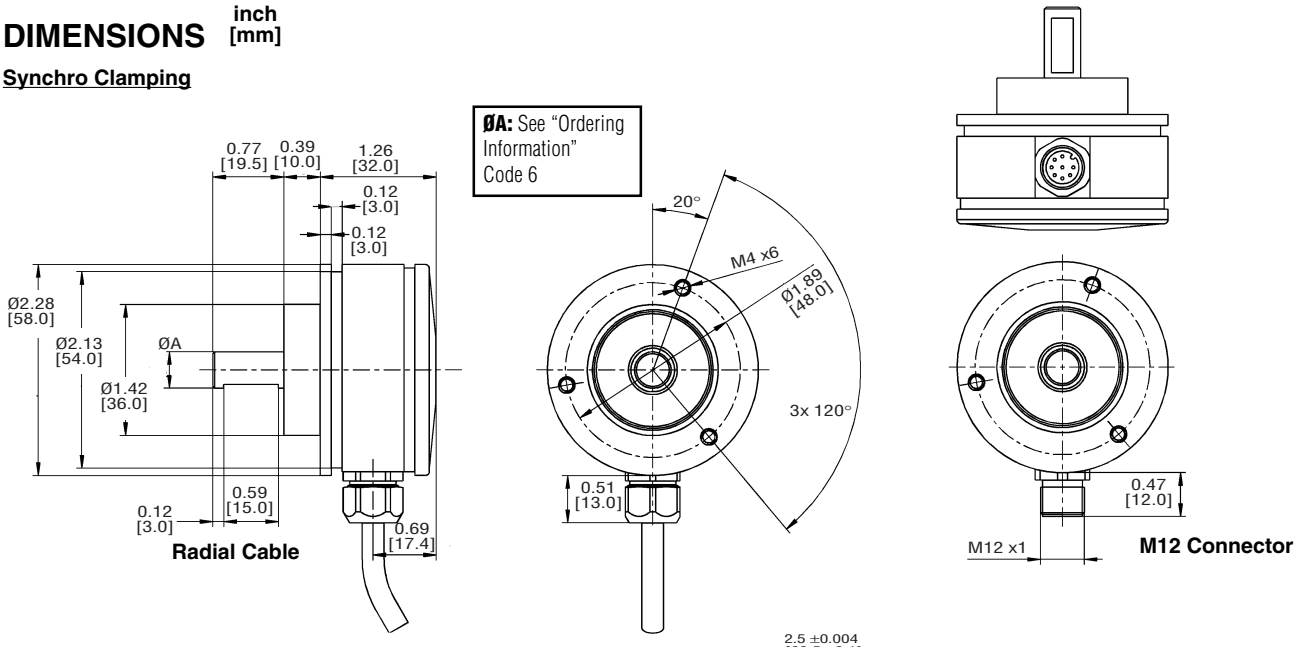
## Ordering Information

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

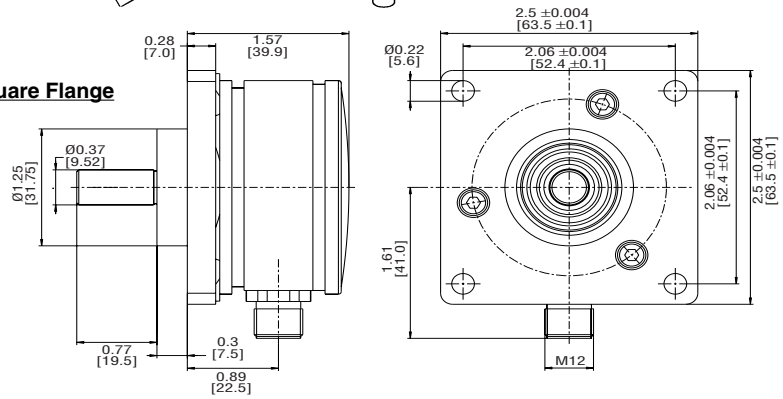
| Code 1: Model | Code 2: Resolution | Code 3: Voltage | Code 4: Mounting | Code 5: Protection | Code 6: Shaft Size | Code 7: Interface | Code 8: Connection | Code 9: Cable Length |
|---|---|---|---|---|---|---|---|---|
| Ordering Information | | | | | | | | |
| **AR62** | □□12 | □ | □ | □ | □ | □□ |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

## DIMENSIONS inch [mm]

**Synchro Clamping**




**Square Flange**





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