

SERIES AC36

ACURO

Absolute Encoder

Key Features

- Up to 22 bit Singleturn and 12 bit multiturn true absolute positioning
- Small 38mm diameter housing
- Wide -15 to +100°C temperature range



SPECIFICATIONS

ELECTRICAL

Supply Voltage: -5%/ 10% DC 5 V; DC 7-30 V
Max. Current: w/o load 50 mA (ST), 100 mA (MT)
Resolution: singleturn 12 -17 Bit; multiturn 12 Bit
Output Code: Gray, Binary
Drives: Clock and Data / RS422
Incremental signals: Optional Sine-Cosine 1 Vpp
Number of Pulses: 2048
3dB Limiting Frequency: 500 kHz
Alarm Output: Alarm bit (SSI Option), warning and alarm bit (BISS)

MECHANICAL

Housing Diameter: 37.5 mm
Shaft Diameter: 6 mm (Solid shaft)
Flange (Mounting of housing): Pilot flange
Protection Class Shaft Input (EN 60529): IP64
Protection Class Housing (EN 60529): IP64
Max. Shaft Speed: 10 000 rpm (continuous), 12 000 rpm (short term)
Torque: 0.01 Nm
Moment of Inertia: ca. 2.5×10^{-6} kgm²

ENVIRONMENTAL

Vibration Resistance (DIN EN 60068-2-6): 100 m/s² (10 to 2000 Hz)
Shock resistance (DIN EN 60068-2-27): 1000 m/s² (6 ms)
Operating Temperature: -40°C to +100°C
Storage Temperature: -15°C to +85°C
Weight: approx. 80 g (ST) / 130 g (MT)
Connection: Cable, axial or radial

ELECTRICAL CONNECTIONS

SIGNAL	CABLE COLOR
5 / 7-30 V (U_B)	White
0 V (U_N)	Brown
Clock	Yellow
$\overline{\text{Clock}}$	Green
Data	Pink
$\overline{\text{Data}}$	Grey
A	White/Green ¹
$\overline{A}$	Brown/Green ¹
B	Red/Blue ¹
$\overline{B}$	Grey/Pink ¹
5V Sensor	Violet ¹
0V Sensor	Black ¹

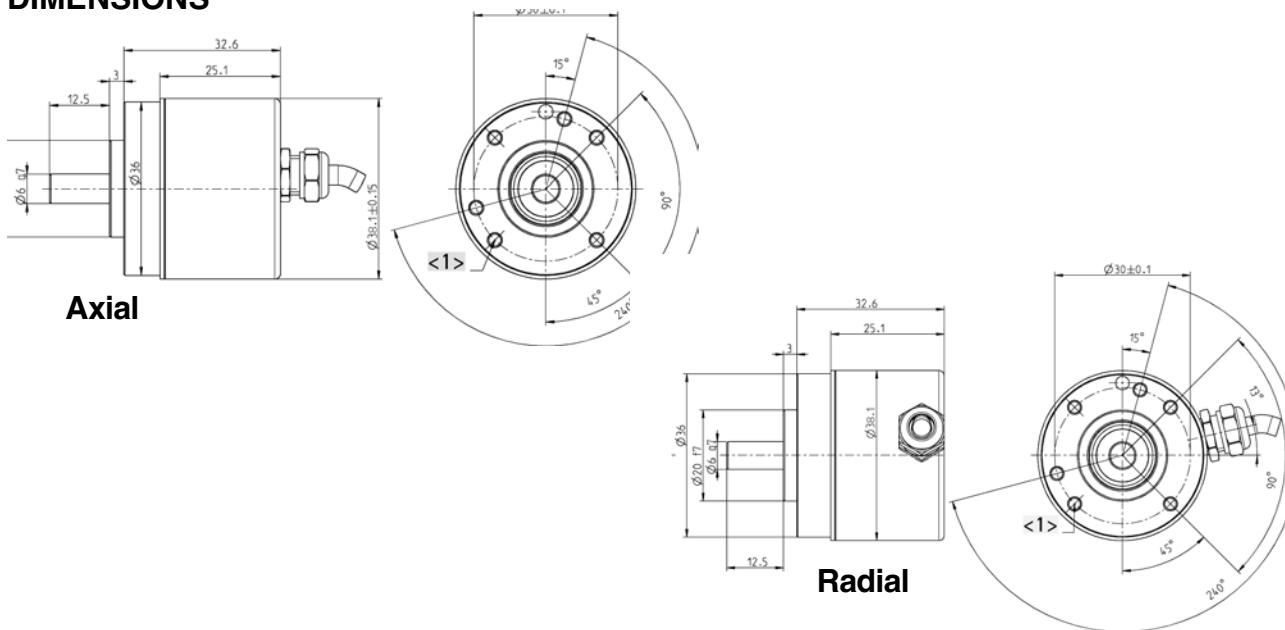
¹only with "SC"

Ordering Information

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

Code 1: Model	Code 2: Resolution	Code 3: Supply Voltage	Code 4: Mounting	Code 5: Protection Class	Code 6: Shaft Size	Code 7: Interface	Code 8: Connection
AC36/							
Ordering Information							
ACURO Series AC36 Absolute Encoder	Single Turn 0012 0013 0014 0017 Available when Code 7 is BI 0019 0022 Multiturn 1212 1213 1214 1217 Available when Code 7 is BI 1219 1222	A 5 VDC E 7-30 VDC	R Round Flange	4 IP 64	1 6mm	BI BISS SB SSI Binary SC SSI Gray + sin/cos 1Vpp SG SSI Gray	A Cable, axial, 1.5m, 12 pole B Cable, radial, 1.5m, 12 pole

DIMENSIONS



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- **North America:** North Carolina, South Carolina, Connecticut, Massachusetts, New York, Canada, British Virgin Islands
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