# CS15 Rotary Incremental Encoder

100 to 2500 Pulses Per Revolution Size 15, Low Profile Design • 5..28 VDC, Push-Pull Driver OEM or Industrial Applications In Stock for Quick Delivery

# GENERAL

Pulses Per Revolution Options	100, 1000, 2000, 2500
Output Driver	push-pull $(V_{out} = V_{in})$
Input Voltage (V <sub>in</sub> )	528 VDC
Input Current	100 mA max.
Load	20 mA max.
Maximum Shaft Speed	8000 RPM
Maximum Frequency	200 kHz
Electrical Connection	18-inch, 26 AWG multi-conductor cable

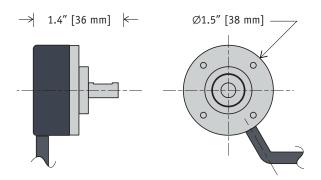
### MECHANICAL

Flange	aluminum
Shaft	stainless steel
Shaft Loading, Radial	5 lbs (22 N) max.
Shaft Loading, Axial	5 lbs (22 N) max.
Starting Torque approx05 oz-in. (	.35 N-mm) @ ambient temperature
Bearing Type	precision ball bearings
Bearing Llfe, @60% of full rated load	1.2 x 10 <sup>10</sup> revolutions
Moment of Inertia	6.7 x 10 <sup>-5</sup> oz-in-sec <sup>2</sup> (4.8 gm-cm <sup>2</sup> )
Maximum Acceleration	1 x 10 <sup>5</sup> rad/sec <sup>2</sup>
Weight	3 oz.

## **ENVIRONMENTAL**

Environmental Suitability	IP50
Operating Temperature	0–185° F (-20–85° C)
Storage Temperature	-13°–185° F (-25°–85°C)
Humidity	98% RH non-condensing
Vibration	10 g @ 58 to 500 Hz
Shock	80 g @ 11 ms duration





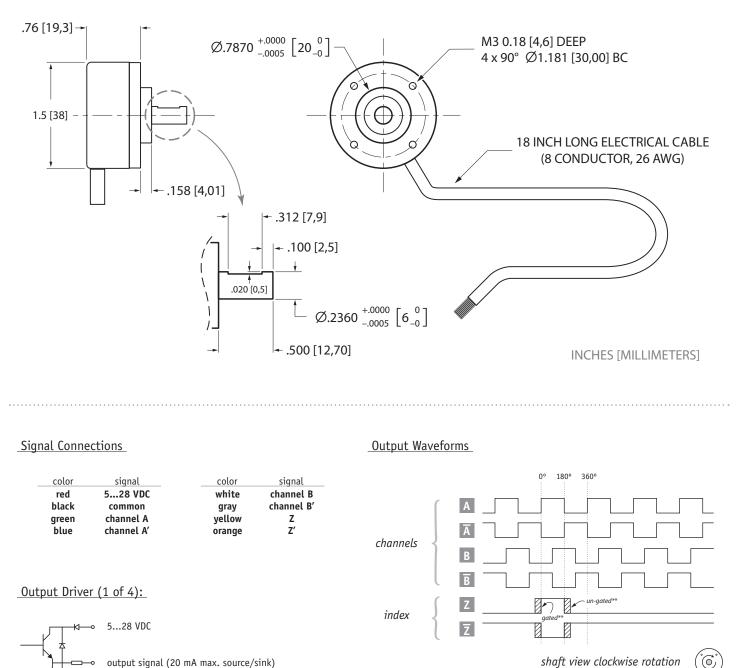
The CS15 is Celesco's compact industry standard size 15, servo-mount incremental encoder. With a low profile of less than an inch in height and a diameter of only 1.5 inches, the economically priced CS15 is perfect for both the OEM and single-piece user alike. Precision ball bearings support a durable stainless steel shaft for reliable, long life operation.

Standard features include 100, 1000, 2000 or 2500 pulses per turn option, a push pull driver and complementary output channels for single-ended or differential output connection. Every encoder ships with state of the art opto-asic circuitry designed to provide a clean, reliable output signal to just about any PLC or electrical interface.

### **ORDERING INFORMATION**

Order Number	pulses per turn
CS15-100	100
CS15-1000	1000
CS15-2000	2000
CS15-2500	2500

# Outline Drawing:



output signal (20 mA max. source/sink)

common

-0

\*\*note: - 1000, 2000, 2500 pulses-per-turn options — gated to A , index pulse =180° - 100 pulses-per-turn option — ungated, index pulse = approx 270°