



Introducing Celesco's CH25 Incremental Encoder. This encoder comes with a 2.5-inch square flange, 3/8-inch shaft and a push-pull output driver. The CH25 also accepts a wide input voltage from 5 to 30 VDC and is available in resolutions from 100 to 5000 pulses per revolution.

This encoder is perfect for many applications including electric motors, packaging machines, conveyor systems and elevators.

Ordering Information

Order Number	Pulses Per Turn	
CH25-100	100	
CH25-360	360	
CH25-500	500	
CH25-1024	1024	
CH25-2048	2048	
CH25-4096	4096	
CH25-5000	5000	

Shielded Cord-Set



CH25

Rotary Incremental Encoder

100 to 5000 Pulses per Revolution

5...30 VDC • Push-Pull Driver

M12 Connector • IP67

In Stock for Quick Delivery

General

Pulses Per Revolution Options 100, 360, 500, 1024, 2048, 4096, 5000

Output Driver push-pull $(V_{out} = V_{in})$

High

Output Level (@ 20 mA load), < 2.5 VDC

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Pulse Frequency 200 kHz

Circuit Protection inverse-polarity protection

Electrical Connection M12 (8-pin) connector (mating plug not included)

Mechanical

Housing aluminum, powder-coated

Flange aluminum

Shaft stainless steel

Shaft Loading, Radial 49.5 lbs (220 N) max.

Shaft Loading, Axial 27 lbs (120 N) max.

Starting Torque approx. 1.4 oz-in. (1 N-cm) @ ambient

temperature

Bearing Type precision ball bearings **Bearing Life @ 100% of full** 10⁹ shaft revolutions

rated load

Bearing Life @ 40% of full rated 10₁₀ shaft revolutions

load

Bearing Life @ 20% of full rated 1011 shaft revolutions

oad

Maximum Operating Speed8000 RPMWeight (approx)10.5 oz (300g)

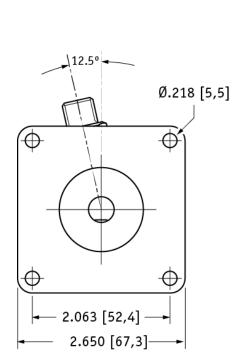
Environmental

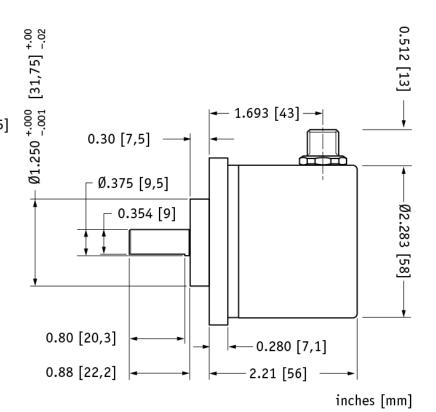
Enclosure Design IP67
Shaft Seals IP65

Operating Temperature -4° to 176°F (-20° to 80°C)
Storage Temperature -22° to 176°F (-30° to 80°C)

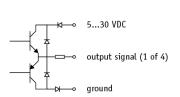
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Outline Drawing





Output Driver

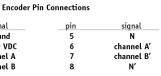




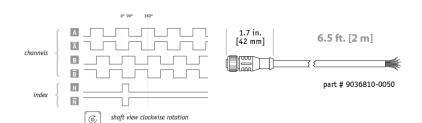
Output Signal Connections



	Liicot	
pin	signal	
1	ground	
2	530 VDC	
3	channel A	
4	channel B	



Output Waveforms



Cord Set Connections

pin	conductor	signal	pin	conductor	signal
(1)	white	ground	(5)	gray	N
(2)	brown	530 VDC	(6)	pink	channel A'
(3)	green	channel A	(7)	blue	channel B'
(4)	yellow	channel B	(8)	red	N'

cable specifications

length: 6.5 ft. (2m)
wire size: 24 AWG (.25mm²)
shield: yes
cable material: PVC
cable color: gray

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