

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

order #: 9036810-0050 (w/ straight cable socket) 6.5 ft (2 M)

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 $(V_{out} = V_{in})$

Input Voltage (Vin) 5...30 VDC **Input Current** 70 mA max. 40 mA max. Load Output Level (@ 20 mA load), $> V_{in} - 10\%$

High

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

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 temperatu

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

rated load

Bearing Life @ 40% of full 10₁₀ shaft revolutions

rated load

Bearing Life @ 20% of full

10¹¹ shaft revolutions

rated load

Maximum Operating Speed 8000 RPM

Weight (approx) 10.5 oz (300g)

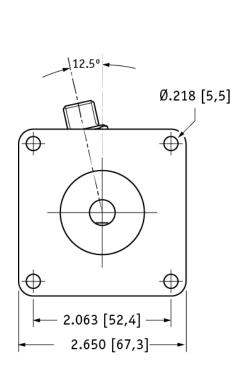
Environmental

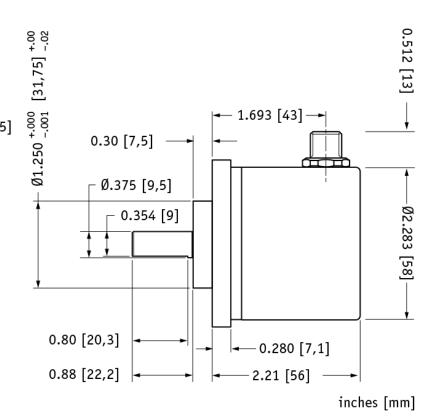
Enclosure Design IP67 **Shaft Seals** IP65

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

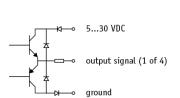
SENSOR SOLUTIONS /// CH25

Outline Drawing





Output Driver





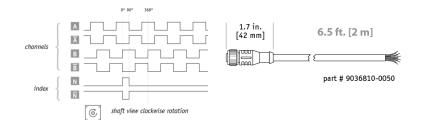
Output Signal Connections



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

pin	signal
5	N
6	channel A'
7	channel B'
8	N'

Output Waveforms



Cord Set Connections

Encoder Pin Connections

pin	conductor	signal	р	in	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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