CH25

Rotary Incremental Encoder

100 to 5000 Pulses Per Revolution 5...30 VDC • Push-Pull Driver M12 Connector • IP67 In Stock for Quick Delivery







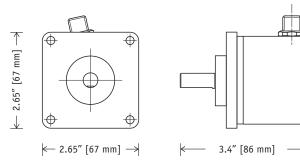
Pulses Per Revolution Options	100, 360, 500, 1024, 2048, 4096, 5000
Output Driver	push-pull $(V_{out} = V_{in})$
Input Voltage (V _{in})	530 VDC
Input Current	70 mA max.
Load	40 mA max.
Output Level (@ 20 mA load), High	> V _{in} - 10%
Output Level (@ 20 mA load), Low	< 2.5 VDC
Pulse Frequency	200 kHz
Circuit Protection	inverse-polarity protection
Electrical Connection M12 (8-pin)	connector (mating plug not included)

MECHANICAL

lousing aluminum, powder-coate			
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 rated load	109 shaft revolutions		
Bearing Life @ 40% of full rated load	1010 shaft revolutions		
Bearing Life @ 20% of full rated load	1011 shaft revolutions		
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)
Storage Temperature	-22° to 176°F (-30° to 80°C)



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

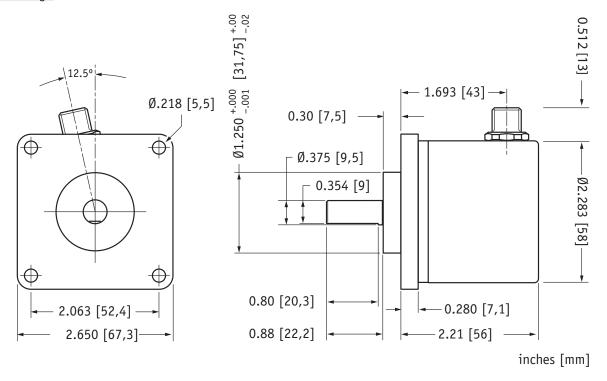
Order Number	Pulses Per Turn
CH25-100	100
CH25-360	360
CH25-500	500
CH25-1024	1024
CH25-2048	2048
CH25-4096	4096
CH25-5000	5000

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

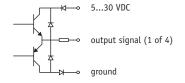


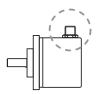


Outline Drawing:









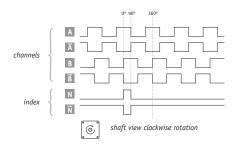
Output Signal Connections:

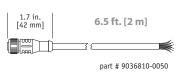


pin	signal	
1	ground	
2	530 VDC	
3	channel A	
4	channel B	

signal
N
channel A'
channel B'
N'

Output Waveforms





6.5 ft. [2 m]
part # 9036810-0050

oin	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'

Cord Set Connections

Encoder Pin Connections

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



version: 5.1 last updated: August 4, 2014

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now Measurement Specialties, Inc.