



# EXCHD

Explosin-Proff Type Encoder



## Electrical

Detection System	Incremental
Power Source	DC 8 ~ 15V
Current Consumption	40 mA or below
Response Frequency	50 KHz
Output Voltag	VoH: Vcc – 0.7V, VoL: 0.5V
Output Phase	A, B A, B, Z
Output Wave Form	
Output Mode	Push Pull

## Connection

Red	Black	White
+	-	A
Green	Yellow	Shield
B	Z	

## Application

- Explosive Environment

## Feature

- Electrical Apparatus for Explosive Gas Atmospheres – Intrinsic Safety “I”

## Resolution

100, 200, 250, 300, 360, 400, 500, 512,  
1000, 1024 P/R

## Mechanical Spec.

Shaft Diameter	Φ6mm
Starting Torque	0.2 Ncm
Shaft Loading	Radial: 80 N Axial: 50 N
Max. R.P.M.	6000
Net Weight	130g

## Environmental Spec.

Operating Temp.	-10 ~ +70 °C
Storage Temp.	-20 ~ +80 °C
Operating Humidity	RH 85% max non-collecting
Shock	490 m/s <sup>2</sup> , 3Dx2 times
Vibration	0.6mm, 10~55KHz, 3Dx30min.
Protection	IP 54



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## Ordering Information

**E X C H D - [ ] [ ] [ ] [ ] - [ ] 6 P [ ] - [ ] 0 1 0**

Resolution			
100	100 P/R	400	400 P/R
200	200 P/R	500	500 P/R
250	250 P/R	512	512 P/R
300	300 P/R	1000	1000 P/R
360	360 P/R	1024	1024 P/R

**Output Phase**  
 X : A  
 Y : AB  
 Z : ABZ

**Wiring Entry**  
 R : Radial

**Shaft Diameter**  
 6 : 6mm

**Output Mode**  
 P : push pull

**Power Source**  
 T : TTL5V  
 H : High voltage 8~24V

**Cable Length**  
 010 : 1M

## Mechanical Drawing

Unit: mm

