

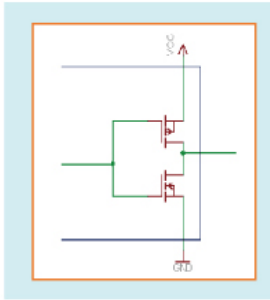
ETD16-2D/E/F

Encoder

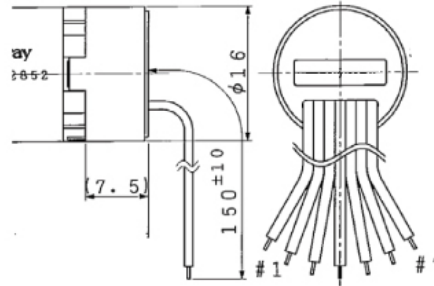
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2 Channels magnetic incremental encoder.

Output circuit



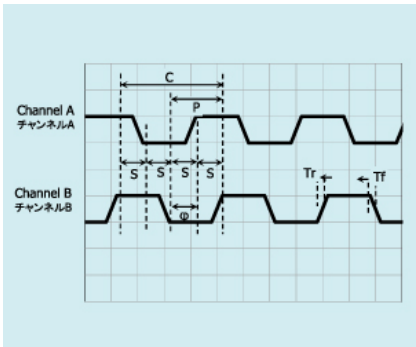
CMS16に接続時の図面です



Specification at 25°C

		Encoder ETD16-2D	Encoder ETD16-2E	Encoder ETD16-2F	
1	Sensor	Optical			
2	Encoder Type	Incremental			
3	Output Signal	CMOS/TTL compatible			
4	Number of Channels	2/3			channel
5	Resolution (Max. speed = 50,000 rpm)	256	512	1024	pulse/rev
6	Max. Frequency Response	55	110	220	kHz
7	Supply Voltage, Vcc	4.5 . . 5.5			V
8	Supply Current, typical	20			mA
9	Output Voltage "H"	≥ 2.4 (Max.Vcc)			V
10	Output Voltage "L"	≤ 0.4			V
11	Output current per channel	1.5			mA
12	Rise and fall time ($R_L=2.7k\Omega$ and $C_L=25pF$)	$T_r=100, T_f=100$			ns
13	Inertia	TBD			gmm ²
14	Operating Temperature	20 . . +85			°C
15	Storage Temperature	20 . . +85			°C

Output signal (at motor shaft clockwise rotation)



Output signal information

Cycle C	360	° e
Pulse P	180	° e
Ato B channel phase shift, ϕ	90 ± 45	° e
Logic state width, S	90 ± 45	° e

*Max error ($\pm$ ° e) indicated above.

Electrical connections

#1	(Motor+)	(Motor widening)
#2	Vcc	DC4.5...5.5V
#3	Ch.A	CMOS TTL compatible
#4	Ch.B	CMOS/TTL compatible
#5	—	NC (3ch as option Ch.Z)
#6	GND	
#7	Motor	(Motor widening)