



DIGITAL OPTICAL ROTARY ENCODER



Technical Details:

Item		Diameter 41mm shaft 6mm type Incremental rotary encoder
Resolution (P/B)		500, 720, 800, 1000, 1024 PPR
Input Phase		AB Phase
Output Phase		Open Collector
	Supply Voltage	5-24 VDC
Electrical	Current Consumption	Max , 40mA
	Response Frequency	Max , 20 KHz
	Revolution	Max , 2000 rev /min
Mechanical	Starting torque	Max , 20 gf , cm (0.002 N .m)
	Rotor inertia	Max , 35 g ,cm2 (3,5" 10 -6 kg.m2)
	Shaft Loading	Radial : Max ,2kgf Axial : Max .1kgf
	Mechanical Speed	Max .5000 rev / min ("1)
Environmental	Ambient Temperature	-10 70 (at non- freezing status) , Stronger :- 25 85
	Ambient Humidity	35 85% RH , Stronger : 35 90 % RH
	Protection	Ip52 (IEG Standard)
	Vibration	1.5 mm amplitude at frequency of 10-55 Hz in each Of X,Y,Z direction for 2 hour.
	Shock	Max. 40G
Unit Weight		Approx :160g
Cable		2.0m
Approval		CE ROHS
f°1)		Mechanical speed > Allowable revolution , Please take allowable speed as standard when use

Wire Colour	OC VP OP 3-CHANNEL	TTL / HTL 6- CHANNEL	PIN 9-POLE	EXPLANATION
RED	VCC	UCC	1	Supply Voltage
BLACK	0 V	0 V	4	Common Port
GREEN	A	A	5	Signal wire
WHITE	B	B	3	Signal wire
YELLOW	Z	Z	8	Signal wire
BROWN		-A	6	Signal wire
GRAY		-B	7	Signal wire
ORANGE		-Z	2	Signal wire
SHIELD	SHIELD	SHIELD	9	

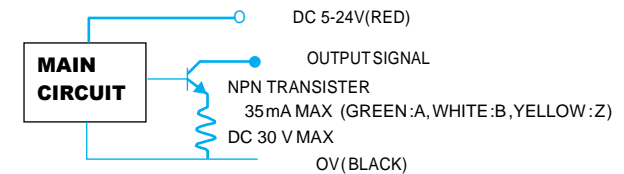
Output:

AB two-phase quadrature output rectangular pulse, the circuit output is NPN open collector output type.

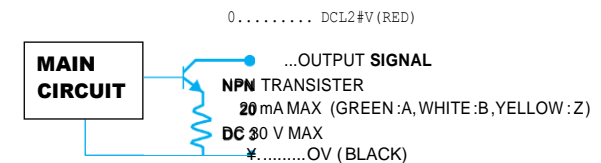
This type can be output with internal pull -up resistor available in Arduino, microcontroller s or PLC, such asAtmega, pic, 51 or microcontroller Mitsubi shi PLC.

If Internal Pullup is not available, then you need to Pull-up Output Channel A & B with resistors supplied with product. i.e. resistor between Green and RED, White and RED wire.

OC NPT OPENCOLLECTOR



OC VOLTAGE OUTPUT



LD LONG DRIVER OUTPUTS 5V
LDH : LONG DRIVER OUTPUTS 5-24V

