



Conveyor tracking ,encoder no need pull
high

Summary

➤ Purpose

1. Encoder support

The Encoder of the push-pull system can be used after HMI updated.

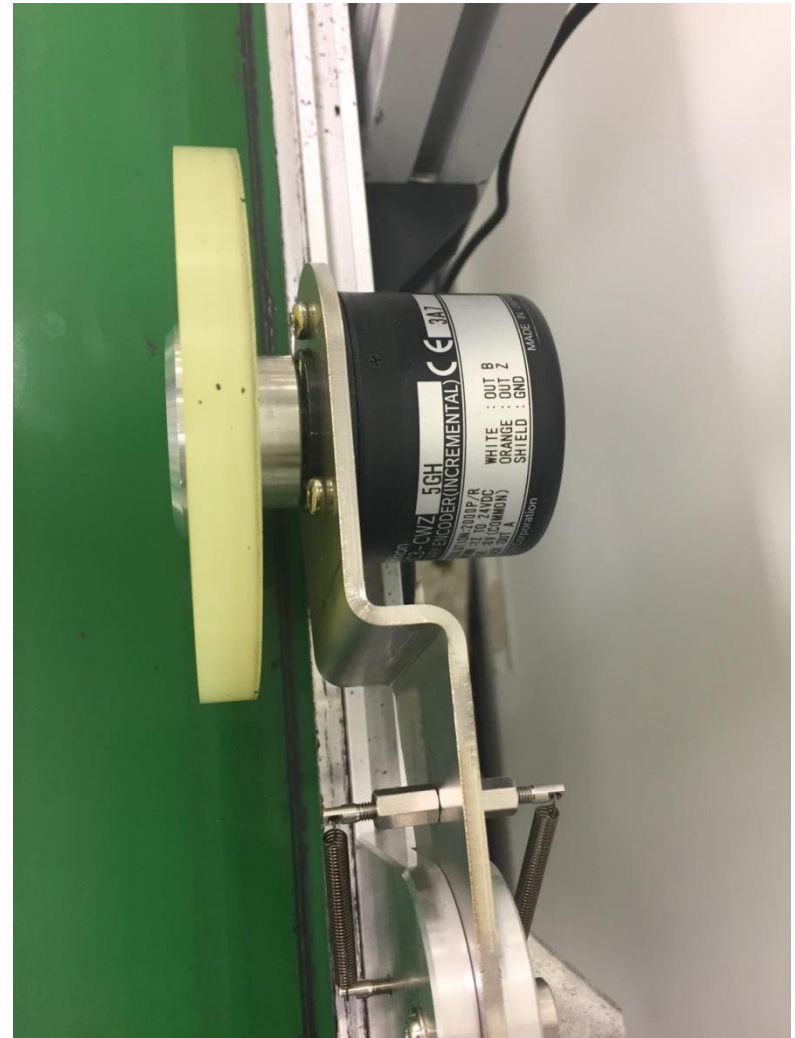
If the encoder follows the old version open drain system ,must added pull up resistor.

➤ Equipment

1. TM5
2. Encoder
3. EtherCAT SILAVE
4. COUNTER MODULE

➤ Compare

➤ Purchase item



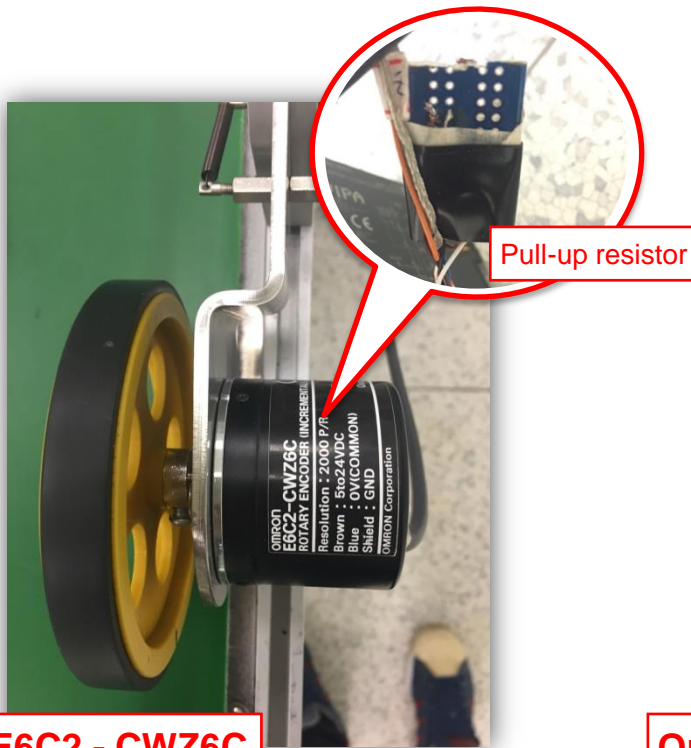
Compare(1/2)

- ✓ Original Omron E6C2 - CWZ6C 2000P/R2M is open drain need pull high ◦
- ✓ New Omron E6C3- CWZ5GH 2000P/R2M is push-pull no need pull high ◦

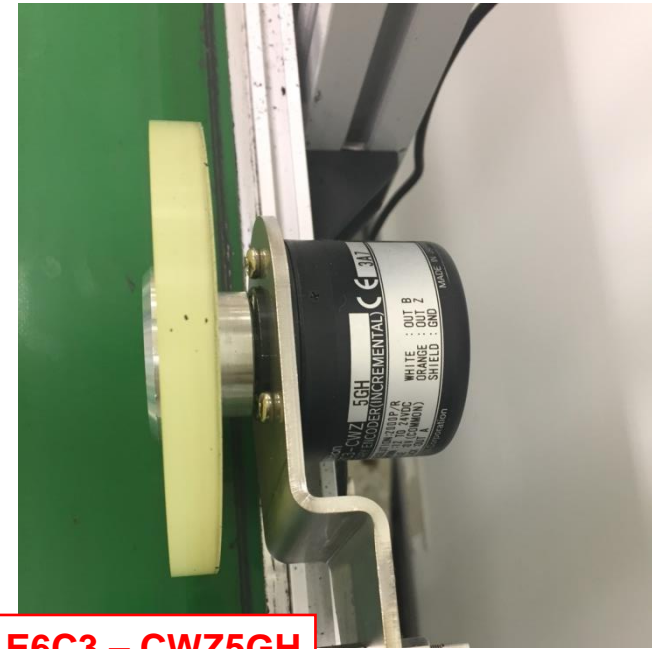
Open-Drain compare with Push-pull circuit	
Name	Open drain(MOSFET) or Open collector(BJT) Push-pull
Structure	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Open Collector Circuit</p> </div> <div style="text-align: center;"> <p>Push-Pull Circuit</p> </div> </div>
Output	added pull up resistor otherwise it doesn't work Hi or Low level
Feature	1.Voltage converter-Level shift 2.The IC only need a small gate drive current

Compare(2/2)

- ✓ If the encoder is Omron E6C2 - CWZ6C, must added resistor ◦
- ✓ Suggest customer purchase Omron E6C3- CWZ5GH ◦



Omron E6C2 - CWZ6C



Omron E6C3 - CWZ5GH

Purchase item



EtherCAT SILAVE



COUNTER MODULE

project	Parts Number	Discription
1.	EtherCAT SILAVE 7900000069X00	EtherCAT SILAVE (IM 053EC) <u>VIPA</u> :053-1EC00EtherCAT slave RJ45 jack 100BaseTXMax. 64 peripheral modules
2.	COUNTER MODULE	COUNTER MODULE (FM 050) <u>VIPA</u> :050-1BA00 Counter 32 Bit (AB), DC 5 V

END