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http://www.delta.com.tw/industrialautomation/

ROE 台達旋轉式編碼器使用說明
台达旋转式编码器使用说明
DELTA ROTARY OPTIC AL ENCODER INSTRUCTION SHEET

(English Version)

CIRCUIT OF OUTPUT SIGNALS

Before connecting the encoder wirings to the receiver, please identify the type of the output signal with the specification.

1. Connection Table

■ ES/EH/ET Series

Connect the shield wire (bare wire) with the grounding end of equipment for better performance.

Wire Color	Brown	Blue	Black	Black /Red	White	White /Red	Orange	Orange /Red
Function	Vcc	0V	A	$\overline{A}$	B	$\overline{B}$	Z	$\overline{Z}$
Voltage Output	○	○	○	-	○	-	○	-
Open Collector	○	○	○	-	○	-	○	-
Line Driver	○	○	○	○	○	○	○	○
Push Pull	○	○	○	-	○	-	○	-

NOTE

- Vcc: It depends on model type (EXX-XXXXX5XX: 5V or EXX-XXXXX8XX: 5~12V or EXX-XXXXX9XX: 7~24V).
- Voltage Output: Internal 2KΩ pull up resistor is included.
- Line Driver: It is compatible with 26LS32 differential line receiver.

■ AS/AH Series (AXX-XXCXXXXX, AXX-XXVXXXXX)

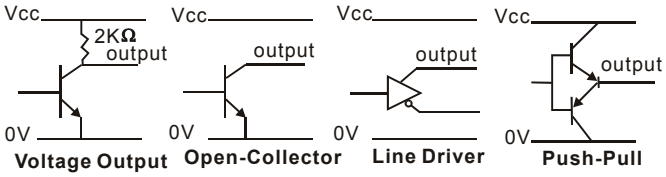
Wire Color	Function	Wire Color	Function
Red	Vcc	Blue	2^4
Black	0V	Purple	2^5
Brown	2^0	Gray	2^6
Orange	2^1	White	2^7
Yellow	2^2	Pink	2^8
Green	2^3	Light Blue	2^9

■ MH4 Series

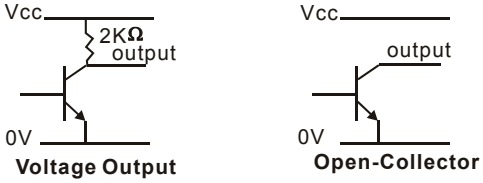
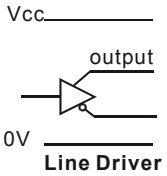
Wire Color	Function	Wire Color	Function
Black	A	Yellow	U
Black/Red	$\overline{A}$	Yellow/Red	$\overline{U}$
White	B	Green	V
White/Red	$\overline{B}$	Green/Red	$\overline{V}$
Orange	Z	Pink	W
Orange/Red	$\overline{Z}$	Pink/Red	$\overline{W}$
Brown	DC +5V	Blue	0V

2. Output Circuit

■ ES/EH/ET Series



■ AS/AH Series (AXX-XXCXXXXX, AXX-XXVXXXXX)



■ MH4 Series