WIRING DIAGRAMS ————

LINE DRIVER (Output Option 1 & 4)

DIFFERENTIAL TWO PHASE WIRING APPLICATIONS

į	PINOUT								
<u> </u>	i 	MOUNTE	TED ON ENCODER			MOUNTED ON 18" CABLE (00W)		į	
CONNECTOR	OPTION "W" (CABLE)	OPTI ' "A", "B", (10 PII	"C", "D"	OPTION "J", "K", "M", "N" (7 PIN MS)	OPTION "E", "F", "G", "H" (6 PIN MS)	OPTION "T"	OPTION U"	- - 	
LS.	Α	Α	В	В	В	Α	A]	
CHANNELS	ØA, ØĀ ØB, Ø <u>B</u> ØZ, Ø <u>Z</u>	ØA, ØĀ ØB, ØB ØZ, ØZ	ØA, ØĀ ØB, ØĒ	ØA, ØĀ ØB, ØB	ØA, ØĀ ØB, ØB	ØA, ØĀ ØB, Ø <u>B</u> ØZ, ØZ	ØA, ØĀ ØB, ØB ØZ, ØZ		REF SIGNAL
	BLACK	l F	F	l F	I A	1	7	1	COM
1	RED	l D	D	D	l B	2	2	1	+V (SEE LINE
ίl	GREEN	A	Α	Α	E	3	1	1	ØA DRIVER
1	VIOLET	Н	С	С	С	4	3	1	ØĀ OPTIONS
) 1	BLUE	i B	і В	В	i Di	5	i 4	i	ØB į
71	BROWN	l	E	E	F ¦	6	5	1	ØĒ
1	ORANGE	С	NC	NC	NC I	7	6	1	Z*
!	YELLOW	J	NC	NC	NC	8	8		 ₹*
(WHITE	G	G	G	NC	NC	NC	1-3	CASE GND**

" SEE WIRING INSTRUCTIONS REGARDING CASE GROUND. LINE DRIVER (Output Option 1, 2, & 4)

SINGLE ENDED TWO PHASE WIRING APPLICATIONS, WITH OR WITHOUT MARKER

i				PINOUT				 	
	ORS	 -	MOUNTED ON	I ENCODER	 		TED ON LE (00W)	 	
 	CONNECTORS	OPTION "W" (CABLE)	OPTION "A", "B", "C", "D" (10 PIN MS)	OPTION "J", "K", "M", "N" (7 PIN MS)	OPTION "E", "F", "G", "H" (6 PIN MS)	OPTION "T"	OPTION U"	; 	
į	S.	Α	E, F	E, F	E, F	Α	Α	1	
 	CHANNELS	ØA, ØĀ ØB, ØB ØZ, ØZ	ØA, ØB, ØZ	ØA, ØB, ØZ	ØA, ØB, ØZ	ØA, ØĀ ^ ØB, ØB ^ ØZ, ØZ ^	ØA, ØĀ ØB, ØĒ ^ ØZ, ØZ̄ ^		REF SIGNAL
	ľ	RED	D	D	В	2	2		+V (SEE LINE)
/	√ i	BLUE	j B	В	j D	5	4	i 	ØB DRIVER
	\	GREEN	l A	l A	! E !	3	1		ØA OPTIONS)
	/ i	BLACK	¦ F	F	A	1	7	i \ !	COM
\setminus \wedge	′ !	ORANGE*	! C*	C*	! C* !	7	6	! ~~~~	ØZ*
) 	ا ا	WHITE	G 	G 	NC NC	NC	NC L		CASE GND**

* NC ON CHANNEL OPTION "F"

** SEE WIRING INSTRUCTIONS REGARDING CASE GROUND.

^ COMPLEMENTS INCLUDED BUT NOT USED

LINE DRIVER (Output Option 1, 2, & 4) SINGLE ENDED SINGLE PHASE WIRING APPLICATIONS

i				 					
l I	ORS	 	MOUNTED ON		MOUNTED ON 18" CABLE (00W)				
 	CONNECTO	OPTION "W" (CABLE)	OPTION "A", "B", "C", "D" (10 PIN MS)	OPTION "J", "K", "M", "N" (7 PIN MS)	OPTION "E", "F", "G", "H" (6 PIN MS)	r	E (00W) OPTION "U"		
	CHANNELS	A (ØĀ, ØB, ØB, ØZ, ØZ INCLUDED BUT NOT USED)	D ØA (ØĀ INCLUDED BUT NOT USED)	D ØA (ØĀ INCLUDED BUT NOT USED)	D I ØA I (ØĀ INCLUDED BUT NOT USED)	I A (ØĀ, ØB, ØĀ, ØZ, ØZ INCLUDED BUT NOT USED)	A (ØĀ, ØB, ØB, ØZ, ØZ INCLUDED BUT NOT USED)		REF
	$\bigg) \bigg\{$	BLACK RED GREEN WHITE	F D A G	F D A G	A B E NC	B B B NC	A B B E NC		COM +V (SEE LINE OPTIONS) ØA CASE GND**
	** SEE WIRING INSTRUCTIONS REGARDING CASE GROUND.								

Open Collector Line Driver Output Option 2 requires pull up resistors from each active output to a +V reference.

For Connector Option "W", unused connections must be insulated to prevent accidental contact.

* NOTE: Connecting Case Ground is optional, and is not recommended if the encoder is already grounded by mechanical means or coupling.

TYPICAL WIRE SELECTION CHART for 18 AWG, multiple pair, individually shielded

	BELDEN	ALPHA
2 PAIR	9368	6062C
3 PAIR	9369	6063C
4 PAIR	9388	6064C
6 PAIR	9389	6066C
	1	