

XRYYY-X-X----

CONNECTOR OPTION CODES  
 LINE DRIVER OPTION G: H, M, N & 8  
 LINE DRIVER OPTION R: A, B, C, D, E, F, J, K, S, T, U, & V

G - CLASS 1 DIV. 2 LISTED  
 R - CLASS 1 DIV. 2 RECOGNIZED

MODEL #

HAZARDOUS LOCATION CODE

SEE INSTRUCTION SHEET FOR EACH MODEL FOR EXACT P/N BREAKDOWN

THE XR --- FAMILY OF ENCODERS HAS BEEN EVALUATED TO BE COMPLIANT WITH:

- CSA 22.2 NO. 14-13
- CSA C22.2 NO. 213-M1987
- ISA 12.12.01 NONINCENDIVE ELECTRICAL EQUIPMENT FOR USE IN CLASS 1 DIVISION 2 HazLoc
- UL508 STANDARD FOR INDUSTRIAL CONTROL EQUIPMENT

THE XR --- FAMILY OF ENCODERS IS SUITABLE FOR USE IN HAZARDOUS LOCATIONS:

- CLASS 1 DIV 2 GROUPS A, B, C OR D, OR NON - HAZARDOUS LOCATIONS ONLY.

Cet équipement est adapté à une utilisation en Classe 1, Division 2, Groupes A, B, C et D ou des locations non dangereuses.

WHEN SO MARKED AS ABOVE  
 -40°C < Tamb < +80°C TEMP CODE T4

**WARNING: EXPLOSION HAZARD** INSTALLATION SHOULD BE PERFORMED ONLY BY QUALIFIED PERSONNEL. SAFETY PRECAUTIONS MUST BE TAKEN TO ENSURE MACHINERY CANNOT ROTATE AND ALL SOURCES OF POWER ARE REMOVED DURING INSTALLATION. SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS 1 DIVISION 2. DO NOT DISCONNECT EQUIPMENT UNLESS POWER HAS BEEN REMOVED OR THE AREA IS KNOWN TO BE NON-HAZARDOUS.

AVERTISSEMENT-RISQUE D'EXPLOSION Le remplacement de composants peut altérer l'aptitude de Classe 1, Division 2.

AVERTISSEMENT-RISQUE D'EXPLOSION Ne pas déconnecter l'équipement à moins que l'alimentation est coupée ou que la zone est connue pour être non dangereuse.

ENCODERS PARAMETERS ARE:

	INPUT	OUTPUT
VOLTAGE	5-24VDC	5-24VDC
CURRENT	100mA Nom. 355mA Max	100mA Max. ea Output

**FOR LISTED ENCODERS AND CABLE** MUST BE SELECTED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF ARTICLE 504 OF THE NATIONAL ELECTRICAL CODE AS WELL AS THE CANADIAN ELECTRICAL CODE. CABLE CHARACTERISTICS MUST COMPLY WITH THE NATIONAL ELECTRICAL CODE (600V INSTRUMENT TRAY CABLE). INTERCONNECTION CABLES SPECIFIED ABOVE ARE BASED ON TYPICAL APPLICATIONS. CABLE MUST BE SELECTED AND INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND CANADIAN ELECTRICAL CODE. PHYSICAL PROPERTIES OF CABLE SUCH AS ABRASION, TEMPERATURE, TENSILE STRENGTH SOLVENTS, ECT., ARE DICTATED BY SPECIFIC APPLICATION. GENERAL ELECTRICAL REQUIREMENTS ARE: STRANDED COPPER, 18 THROUGH 14 AWG TWISTED WIRE PAIRS, BRAID OR FOIL SHIELDS WITH DRAIN WIRE, .05µf OF MAXIMUM TOTAL MUTUAL OR DIRECT CAPACITANCE, OUTER SHEATH INSULATOR, MAXIMUM CABLE LENGTH = 500 FT.. 20 AWG WIRE SHOULD NOT BE USED FOR CABLE RUNS GREATER THAN 61 METERS. IF 20 AWG IS USED WITH THE EPIC TYPE CONNECTOR THE WIRE ENDS SHOULD BE TINNED.

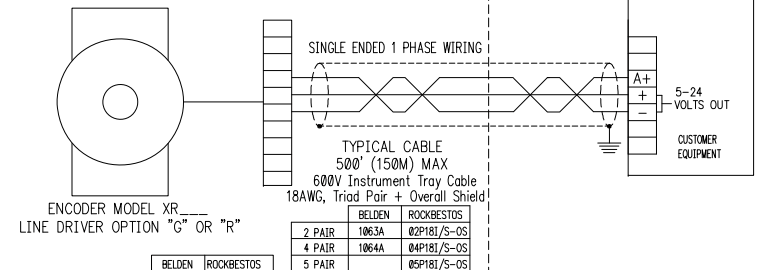
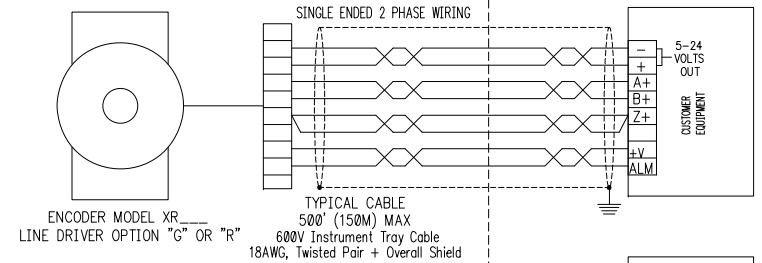
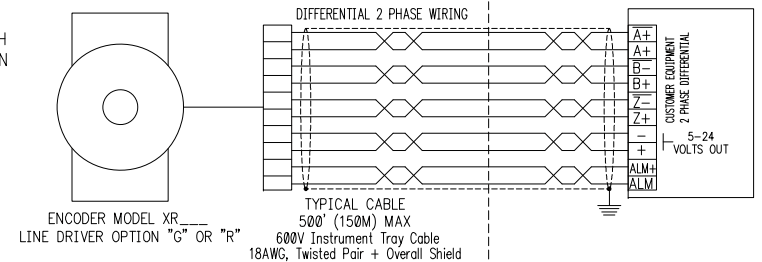
RECOGNIZED MODELS ARE INTENDED TO BE FACTORY WIRED IN ACCORDANCE WITH ISA 12.12.01 CLAUSE 8.8.1.

THIS EQUIPMENT HAS BEEN EVALUATED FOR USE IN A MAXIMUM AMBIENT TEMPERATURE OF 80°C. CONSIDERATION MUST BE GIVEN TO ENSURE FIELD WIRING IS SUITABLY RATED.

Cet équipement a été évalué pour une utilisation dans une température ambiante maximum de 80 °C. Il faut tenir compte pour assurer le câblage est convenablement classé.

REFER TO THE WIRING DIAGRAMS ON THE ENCODER AND IN SPECIFIC MODEL INSTRUCTION SHEETS FOR SPECIFIC CONNECTOR PIN OUTS AND PHASING TABLES FOR EACH CONNECTOR STYLE OPTION.

REVISIONS				
ECN NO.	REV	DESCRIPTION	DATE	APPROVED
E40694	A	UPDATED ENCODER PARAMETERS	NICKOLI 5/8/14	SHADDUCK



	BELDEN	ROCKBESTOS
2 PAIR	1063A	02P181/S-OS
4 PAIR	1064A	04P181/S-OS
5 PAIR		05P181/S-OS
8 PAIR	1065A	08P181/S-OS

TYPICAL EXAMPLES

**HAZARDOUS AREA**  
 CLASS 1 DIVISION 2 GROUP A, B, C OR D

**SAFE AREA**  
 SEE INSTRUCTION SHEETS FOR CONNECTOR OPTION PIN OUTS AND PHASING

INSTALLATION IN ACCORDANCE WITH THE NEC AND IN ACCORDANCE WITH THE CEC

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	TOLERANCES: DECIMALS .xxx .03 .xxx .015	CHECKED	SHADDUCK	1/9/14	DIVISION 2 INSTALLATION DRAWING		
	FINISH	ENG APP'D	SHADDUCK	1/9/14			SIZE D CAGE NO. 0FMV7 DWG. NO. D52355 REV A SCALE 1/1 MODEL N/A SHEET 1 OF 1
	PAINT PER PS	AP'D PROJ					
PLATE PER							
COAT PER PS							
ANODIZED PER							
OTHER							

UNLESS OTHERWISE SPECIFIED THE ABOVE NOTES APPLY