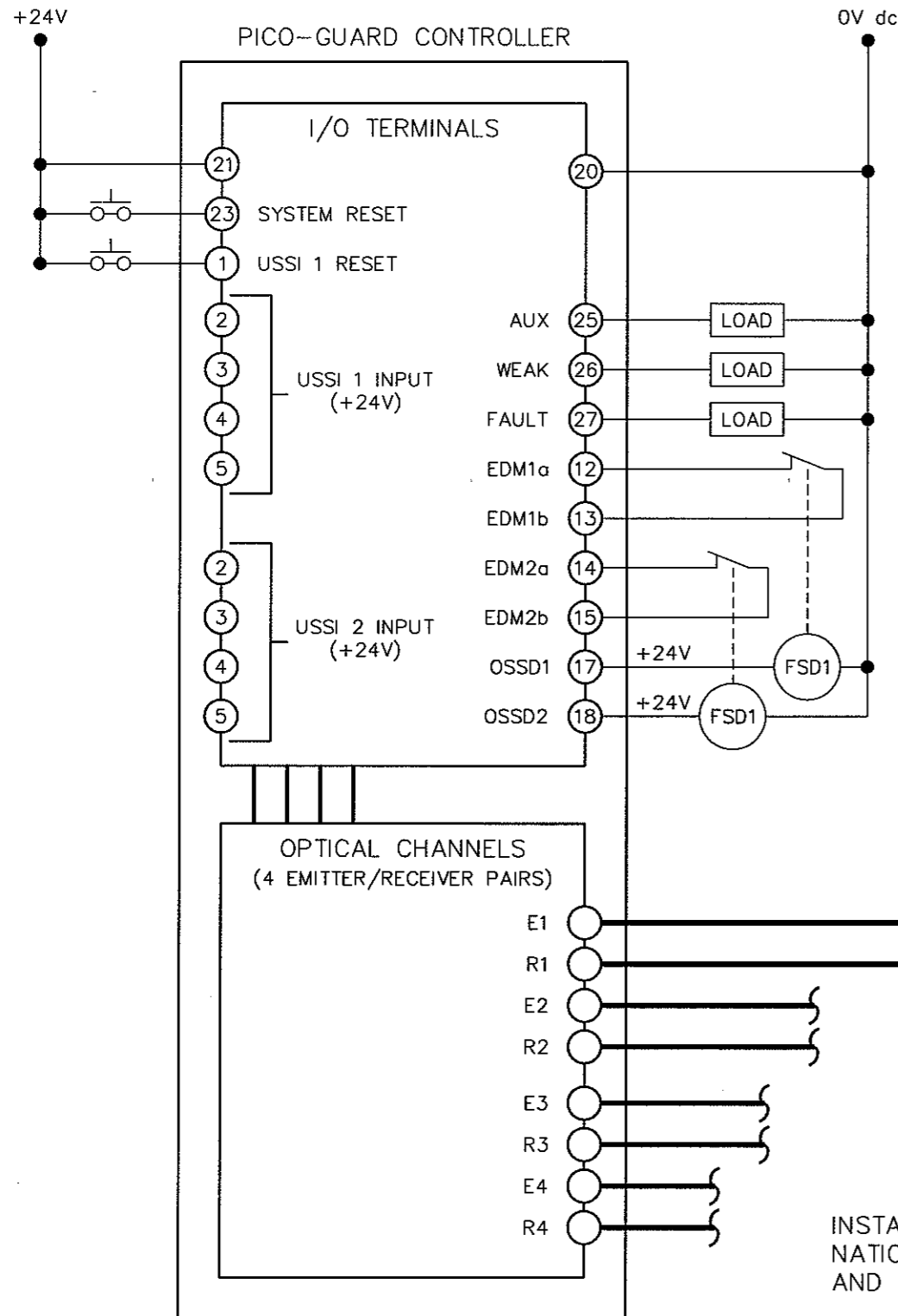


UNCLASSIFIED OR CLASS I, DIVISION 2, GROUPS A, B, C AND D HAZARDOUS (CLASSIFIED) LOCATIONS

CLASS I, ZONE 2, GROUP IIC

FOR INFORMATION ON COMPLIANCE AND CLASSIFICATION ACCORDING TO DIRECTIVE 94/9/EC (ATEX) PLEASE REFER TO PAGE 2.



MODELS:
SFCDT-4A1
SFCDT-4A1C
SFCDT-4A1CM1

SPECIAL CONDITIONS

1. SHALL BE INSTALLED IN COMPLIANCE WITH MOUNTING, SPACING, AND SEGREGATION REQUIREMENTS OF THE ULTIMATE APPLICATION.
2. CONNECTIONS TO THE HAZARDOUS (CLASSIFIED) LOCATIONS IS MADE BY FIBER OPTIC CABLE.
3. ANY FIBER CABLE USED MUST NOT EXCEED A CORE DIAMETER OF 1mm DUE TO THE POTENTIAL OF HIGHER ENERGY COUPLING WITH THE USE OF LARGER DIAMETER FIBER.

INSTALLATION MUST BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NFPA 70, ARTICLE 504) AND ANSI/ISA-RP12.6.

HAZARDOUS (CLASSIFIED) LOCATION

INTRINSICALLY SAFE FOR:
CLASS I, DIVISION 1, GROUPS A - D
CLASS I, ZONE 0, GROUP IIC

NON-INCENDIVE FOR:
CLASS I, DIVISION 2, GROUPS A, B, C & D
CLASS I, ZONE 2, GROUP IIC

OPTICAL ELEMENT MODELS:	
SFA-FA	SFA-FS
SFI-R1L	SFI-R1R
SFI-S1L	SFI-S1R
SFI-A1	SFI-D1
SFI-A1ED	SFI-A1HD
SFI-D1EDPXTxx	SFI-D1HDPSxx
SFI-D1HDPXTxx	SFP12PSxx
SFP30SSxx	SFP12PXPxx
SFP30SXPxx	SFP12PXTxx
SFP30SXTxx	SFI-M12SSxxUXT
SFG2-yyyC-xxx	SFG3-yyyC-xxx
SFG4-yyyC-xxx	SFS-EBM-01Ez
NOTES: "xx" OR "xxx" IS FIBER OPTIC CABLE LENGTH IN FEET "yyy" IS LENGTH OF ENCLOSURE IN MILLIMETERS "z" IS FIBER EXIT ORIENTATION (1, 2, OR 3)	

--- SEE SHEET 2 FOR REVISIONS ---

REV.	ECO/DCR	REVISIONS	DATE	DWN.	MFG.	Q.C.	ENG.
TITLE: PICO-GUARD INTRINSIC SAFETY CONTROL							
DWN.	B. RUST	DATE	5-21-04	ENG.	M. GELINEAU	DATE	5-21-04
MFG.		DATE				DATE	
Q.C.		DATE		NO.	117870	REV.	G
						SHEET	1 OF 2

ADDITIONAL INFORMATION FOR CSA APPROVAL

NO REVISION TO DRAWING WITHOUT PRIOR CSA APPROVAL.

CONTROL EQUIPMENT CONNECTED TO CONTROLLER MUST NOT USE OR GENERATE MORE THAN 250Vrms OR Vdc UNLESS THE DEVICE HAS BEEN DETERMINED TO ADEQUATELY ISOLATE THE VOLTAGE FROM THE CONTROLLER.

INSTALLATION AND WIRING METHODS MUST BE IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE, CSA C22.1, PART 1, APPENDIX F.

INTRINSICALLY SAFE CONTROLLER MUST BE CONNECTED TO FLEXIBLE OPTICAL FIBER, PROTECTIVE SHEATHING, AND OPTICAL ELEMENTS: FIBER OPTIC INTERLOCK SWITCHES, BEAMS, AND GRIDS; MODELS SHOWN IN THE TABLE.

CONTROLLER MUST BE INSTALLED IN AN ENCLOSURE THAT MEETS THE REQUIREMENTS OF THE CANADIAN ELECTRICAL CODE, CSA C22.1, PART 1, APPENDIX F.

WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY.

AVERTISSEMENT: LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SECURITE INTRINSEQUE.

ADDITIONAL REQUIREMENTS FOR 94/9/EC DIRECTIVE (ATEX) COMPLIANCE

CONTROLLER MUST BE INSTALLED IN AN Ex n OR Ex e COMPLIANT ENCLOSURE OF AT LEAST IP54. INSTALLATION ACCORDING TO IEC 60079-14.

CONTROLLER IS COMPLIANT FOR LOCATION: II 3(1) G D T78.6°C EEx nA IIC Ta: 50°C (ZONE 2, REF. PAGE 1)

OPTICAL ELEMENTS ARE COMPLIANT FOR LOCATION: II 1 G Ex op is IIC T5 Ta: 50°C (ZONE 0, REF. PAGE 1)

WARNING: STATIC HAZARD, CLEAN FIBER OPTIC SENSORS WITH A DAMP CLOTH.

THE EQUIPMENT SHALL BE ACCOMPANIED WITH MANUAL/INSTRUCTIONS ACCORDING TO THE ATEX DIRECTIVE. THE MARKINGS OF THE EQUIPMENT SHALL BE RECAPITULATED IN THE INSTRUCTIONS.

FOR ZONE 22

CONTROLLER MUST BE INSTALLED IN A CERTIFIED "EEx e", "EEx n", OR ATEX II 3 D COMPLIANT METAL ENCLOSURE OF AT LEAST IP54.

WARNING: CERTAIN ENCLOSURES (PICO-GUARD GRID, SFI-xxED., SFI-xxHD..) CONTAIN MORE THAN THE 10% ALUMINUM ALLOWED FOR ZONE 0 GROUP II AND CARE SHALL BE TAKEN TO AVOID IGNITION HAZARD DUE TO IMPACT OR FRICTION WITH THE ALUMINUM DURING OPERATION.

- G ECO 15356; ADDED "WARNING: CERTAIN EN-CLOSURES..." TEXT TO END OF ADDITIONAL REQUIREMENTS FOR ATEX SECTION; 4-4-07 B. RUST
- F ECO 15080; ADDED "SFS-EBM-01Ez" MODEL NUMBER TO OPTICAL ELEMENT MODELS TABLE, ADDED "SFCDT-4A1CM1" TO MODELS TABLE, REMOVED "+5V" FROM SCHEMATIC (TERMINAL NUMBERS 25-27), CORRECTED TYPO IN ATEX NOTES ("EEx n" IN LAST NOTE WAS "EEx e"); 4-4-07 B. RUST
- E ECO 14342; ADDED HAZARDOUS REQUIREMENT INFO; 5-22-06 B. RUST
R. STAFF
- D ECO 14025; ADDED HD & ED P/N'S TO THE OPTICAL ELEMENT MODELS TABLE; 2-16-06 B. RUST
D. LUER
- C ECO 12988; ATEX APPROVAL INFORMATION ADDED; 4-29-05 B. RUST
M. GELINEAU
- B ECO 12332; IN HEADING (SHEET 1) "GROUP IIC" WAS "GROUP IIC", ADDED "CLASS 1, ZONE 2, GROUP IIC" TO NON-INCENDIVE HAZARDOUS LOCATION; 11-12-04 B. RUST
M. GELINEAU
- A ECO 12218; ADDED "CLASS I, ZONE 2..." TO HEADING (SHEET 1), ADDED "ADDITIONAL NOTES" SECTIONS (SHEET 2); 10-8-04 B. RUST
R. STAFF

REV.	ECO/DCR	REVISIONS	DATE	DWN.	MFG.	Q.C.	ENG.
TITLE: PICO-GUARD INTRINSIC SAFETY CONTROL							
DWN.	B. RUST	DATE	5-21-04	ENG.	M. GELINEAU	DATE	5-21-04
MFG.		DATE				DATE	
Q.C.		DATE		NO.	117870	REV.	G
						SHEET	2 OF 2