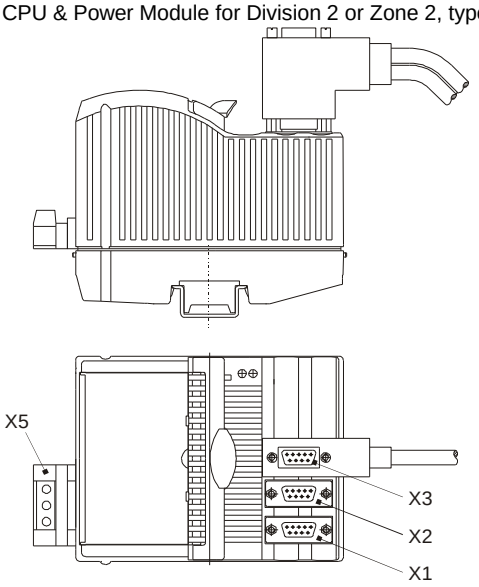
Class I, DIV 2 / Zone 2 Installation
for connection to I/O Modules located in
Class I, II, III, Division 2, Group A-G,
or Class I, Zone 2, Group IIC/IIB
Hazardous (Classified) Locations

Connection allocation
CPU & Power Module for Division 2 or Zone 2, type 9440/15-01-11



Power supply (X5)

Description	*Function*	*Connector number*	*Terminal 3-pin name*
	24 V DC (+)	X5	L+
	0 V	X5	L-
	Ground	X5	GND

Fieldbus (X1, X2) and Service Bus (X3)

Description	*Function*	*Connector number*	*Sub-D 9 pin number*
Data B (+)	RxD/TxD (+)	X1, X2, X3	3
Reference potential for the interface (out of the equipment)	GND	X1, X2, X3	5
Supply voltage (out of the equipment)	5 V (+)	X1, X2, X3	6
Data A (-)	RxD/TxD (-)	X1, X2, X3	8
-	Not connected	X1, X2, X3	1,2,4,7

The Type 9440/15-01-11 CPU & Power Module is an nonincendive module for installation in Class I, Division 2, Group A-D or Class I, Zone 2, Group IIC/IIB hazardous location; Providing intrinsically safe BusRail and nonincendive RS485 interfaces according to NEC Article 504/505 or Canadian Electrical Code, CSA C22.

Safety data for wiring configurations to the left are as follows:

Power Supply (input/primary)	**Connector X5**
	U_{in} = 24 V DC (20 V … 35 V DC)
	I_{in} = 5.2 A
	U_{max} = 250 V
Data interfaces RS 485 (primary)	**Connectors X1, X2, X3**
Data circuits as per I/O Standard	RS 485
	V_{max} = 250 V
Nonincendive connections	V_{OC} = 13.2 V, I_{SC} = 110 mA
	C_i = 0.12 µF, L_i = 0 mH
	U_{max} = 13.2 V, I_{max} = 110 mA
	C_a = 5 µF, L_a = 6.5 mH

Module 1-16 over BusRail:

CL I, DIV 1, A-D / CL I Zone 1, GP IIC/IIB:

Power Supply (output/secondary):

With intrinsically safe type of protection:
Maximum value: V_{OC} = 26.2 V
The circuit requires external current limitation which is provided by the system

Address and data bus (secondary):

With intrinsically safe type of protection:
Maximum values: V_{OC} = 6.6 V
I_{SC} = 105 mA
V_{max} = 6.6 V
Linear characteristic curve, the effective internal capacitance and inductance are negligibly small.

Notes:

1. For Entity concept use the appropriate parameters from above to ensure the following:
   V_{OC} or $V_t \leq V_{max}$ $C_a \geq C_i + C_{leads}$
   I_{SC} or $I_t \leq I_{max}$ $L_a \geq L_i + L_{leads}$
2. Electrical Apparatus connected to an intrinsically safe system must not use or generate voltages > 250 V (Umax)
3. Do not connect or disconnect non I.S. power supply to X5 unless area is known to be non-hazardous.
4. Do not detach from or plug the CPU & Power Module to the BusRail when energized, unless area is known to be non-hazardous.
5. General Notes see Certification drawing for IS1 resp. IS1+ Remote I/O System No. 9400 6 031 004 1

WARNING: Do not disconnect equipment when a flammable or combustable atmosphere is present.
AVERTISSEMENT: Ne pas débrancher l'équipement en présence d'atmosphère inflammable ou combustible.

F 4830 503

Version	Date	Name			
			2016	Date	Name
			Drawn by	03.03.	Bagusch
			Checked		Kaiser

STAHL

Certification drawing
CPU & Power Module
Type 9440/15-01-11

9440 6 031 002 1

Rep. f. | Rep. t.

Scale: none
Sheet: 1 of 1
Agency: FM
A4