

Connections

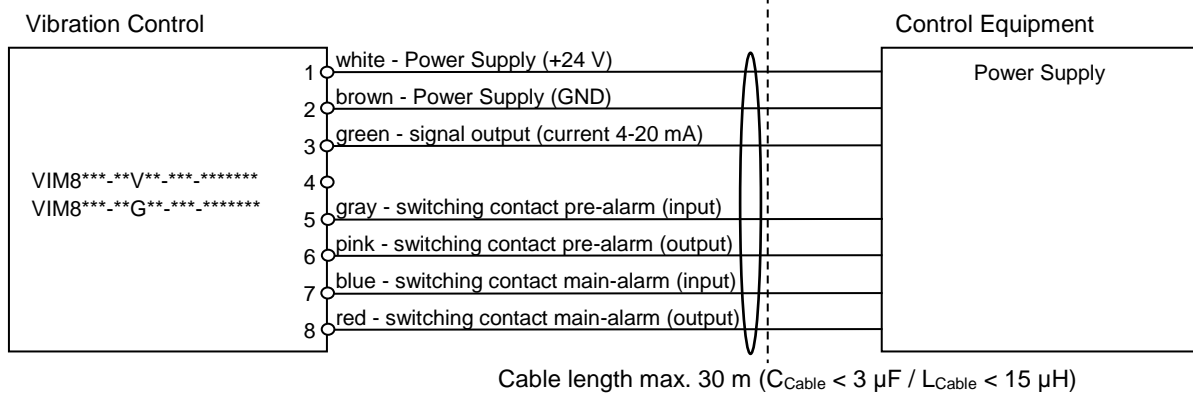
Process Control Equipment for use in hazardous locations (classified) E106378
 Class I, Division 2, Groups A, B, C and D, T4
 Class II, Division 2 Groups F and G, T4

Nonincendive field wiring apparatus

Associated nonincendive field wiring apparatus

$$\begin{aligned}
 V_{\max} &\geq V_{oc} \\
 I_{\max} &\geq I_{sc} \\
 P_{\max} &\geq P_o \\
 C_i + C_{Cable} &\leq C_a \\
 L_i + L_{Cable} &\leq L_a
 \end{aligned}$$

C_a / L_a includes capacitance / inductance of cables from Power Supply to Vibration Sensor and the internal capacitance C_i / internal inductance L_i of the Vibration Sensor $C_a \geq C_i + C_{Cable}$; $L_a \geq L_i + L_{Cable}$



HAZARDOUS LOCATION

NON-HAZARDOUS LOCATION
(unclassified)

Notes

On the sensor

Terminals	Function	Pins	Linear input and output characteristics
1.	Power Supply	1 and 2	$V_{\max} = 26,4 \text{ V DC}$, $I_{\max} = 100 \text{ mA}$, $C_i = 202 \text{ nF}$, $L_i = 2 \mu H$
2.	Signal Output	3	current 0/4...20 mA, $I_{\max} = 22 \text{ mA}$, $C_i = 120 \text{ nF}$, $L_i = 0 \mu H$
3.	not used/ do not connect!	4	
4.	Relay Output	5 and 6	$V_{\max} = 30 \text{ V DC}$, $I_{\max} = 150 \text{ mA}$, $C_i = 2 \text{ nF}$, $L_i = 7 \mu H$
5.	Relay Output	7 and 8	$V_{\max} = 30 \text{ V DC}$, $I_{\max} = 150 \text{ mA}$, $C_i = 2 \text{ nF}$, $L_i = 7 \mu H$
6.	Relay Output = potential free switching contact		

On the Control Equipment

1.	Output of the power supply (24 V DC) must not exceed $V_{\max} \leq 26,4 \text{ V DC}$, $I_{sc} \leq 100 \text{ mA}$, $C_a = 205 \text{ nF}$, $L_a = 18 \mu H$
2.	Current to the relay outputs on the sensor must be limited to $I_{oc} \leq 150 \text{ mA}$, $V_{\max} = 30 \text{ V DC}$, $C_a = 3,2 \mu F$, $L_a = 22 \mu H$

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	UL Control Drawing	116-0493
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WARNING - Do not disconnect the equipment when is energized and an explosive atmosphere is present.
 AVERTISSEMENT - Ne pas débrancher l'équipement lorsqu'il est sous tension et exposé à une atmosphère explosive.

Installation Instruction

The Installation must be installed in accordance with NEC NFPA70 Article 504 or other local codes as applicable

Always operate model with the safety clip to avoid accidental disconnection of the plug connection! Otherwise, there is an explosion hazard from sparking when operating this control in potentially explosive atmospheres!

Fastening Safety Clip

1. Fully insert the connection cable socket into the M12 connector. (Pay attention to the code cam position!)
2. Tightly fasten the lock nut of the connection cable socket by hand.
3. Mount the safety clip to avoid accidental disconnection of the plug connection:
 - Place both shell halves of the safety clip around the plug connection.
 - Press both shell halves of the safety clip together by hand until the catch lock engages.
 - Place the arrow connected to both shell halves around the cable, then thread it through the eye on the other end so that the notice sign "DO NOT DISCONNECT UNDER VOLTAGE" is legible alongside the cable.



Fig. 1: Protective Cover
 1 Notice sign



Fig. 2: Fastened Protective Cover

Fastening Protective Cover

Fasten the protective cover using the M12 connector after disconnecting the plug connection!

Disassemble the safety clip and fasten the protective cover:

1. Disconnect the control from the mains.
2. Separate both shell halves of the fuse clip using a screwdriver.
3. Use the M12 connector to firmly close the protective cover.



Fig. 3: Protective Cover



Fig. 4: Fastened Protective Cover

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