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FM Approvals  
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# CERTIFICATE OF COMPLIANCE

## HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS

This certificate is issued for the following equipment:

### **6DV-ab. 4-Digit Loop Powered Indicator.**

IS / I / 1 / ABCD / T4 Ta = 80°C; T5 Ta = 60°C - 20071-14-N6P4; Entity

I / 0 / Ex ia IIC / T4 Ta = 80°C; T5 Ta = 60°C - 20071-14-N6P4; Entity

Entity Parameters:

$V_{\max}(U_i) = 30\text{Vdc}$ ,  $I_{\max}(I_i) = 100\text{mA}$ ,  $P_i = 0.75\text{W}$ ,  $C_i = 1.0\text{nF}$ ,  $L_i = 0$

### **6DVI-ab. 4-Digit Loop Powered Indicator.**

IS / I / 1 / ABCD / T4 Ta = 85°C; T5 Ta = 60°C - 20071-14-N6P6; Entity

I / 0 / Ex ia IIC / T4 Ta = 85°C; T5 Ta = 60°C - 20071-14-N6P6; Entity

Entity Parameters:

$V_{\max}(U_i) = 28\text{Vdc}$ ,  $I_{\max}(I_i) = 120\text{mA}$ ,  $P_i = 0.84\text{W}$ ,  $C_i = 1.0\text{nF}$ ,  $L_i = 0$

a = Safety Approval: 1 (FM Intrinsically safe)

b = Specification Customizing: None (Standard specification) or -X (Special specification)

### **Special Conditions of Use:**

1. The equipment shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application.

2. It is the responsibility of the manufacturer to provide warning markings in French where required by local jurisdictions.

### **6DV-B-abcdef. 4-Digit Loop Powered Indicator.**

IS / I, II, III / 1 / ABCDEFG / T4 Ta = 80°C; T5 Ta = 60°C - 20071-14-N6P4; Entity

I / 0 / Ex ia IIC / T4 Ta = 80°C; T5 Ta = 60°C - 20071-14-N6P4; Entity

Entity Parameters:

$V_{\max}(U_i) = 30\text{Vdc}$ ,  $I_{\max}(I_i) = 100\text{mA}$ ,  $P_i = 0.75\text{W}$ ,  $C_i = 1.0\text{nF}$ ,  $L_i = 0$

### **6DVI-B-abcdef. 4-Digit Loop Powered Indicator.**

IS / I, II, III / 1 / ABCDEFG / T4 Ta = 85°C; T5 Ta = 60°C - 20071-14-N6P6; Entity

I / 0 / Ex ia IIC / T4 Ta = 85°C; T5 Ta = 60°C - 20071-14-N6P6; Entity

Entity Parameters:

$V_{\max}(U_i) = 28\text{Vdc}$ ,  $I_{\max}(I_i) = 120\text{mA}$ ,  $P_i = 0.84\text{W}$ ,  $C_i = 1.0\text{nF}$ ,  $L_i = 0$



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- a = Safety Approval: 1 (FM Intrinsically safe).
- b = Terminal Block: 0 (None) or T (Incorporated).
- c = Wiring Conduit: 0 (G ½), 1 (1/2 NPT), 2 (M20 x 1.5) or 3 (PG 13.5).
- d = Mounting Bracket: 0 (Without) or 1 (With).
- e = Options: S (Stainless steel enclosure)
- f = Specification Customizing: None (Standard specification) or -X (Special specification).

**Special Conditions of Use:**

1. *It is the responsibility of the manufacturer to provide warning markings in French where required by local jurisdictions.*

**Equipment Ratings:**

Intrinsically Safe electrical apparatus with Entity requirements for use in Class I, II, III, Division 1, Groups A, B, C, D, E, F and G; alternatively for Class I, Zone 0, Group IIC when installed per document nos. 20071-14-N6P4 and 20071-14-N6P6; hazardous locations. Only Models 6DV-B and 6DVI-B are Approved for Class II and III locations.

**FM Approved for:**

M-System Co., Ltd.  
Nishinari-ku, Osaka 557-0063 Japan



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This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

CSA C22.2 No. 157	2002
CAN/CSA-E60079-0	2006
CSA C22.2 No.1010.1	2004
CAN/CSA-E60079-11	2006

Original Project ID: 3027935C

Approval Granted: *August 8, 2007*

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
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FM Approvals LLC

*Signature*

Timothy Adam  
Technical Team Manager

*August 15<sup>th</sup>, 2007*  
Date