FM Approvals
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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

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 / AEx ia IIC / T4 Ta = 80°C; T5 Ta = 60°C - 20071-14-N6P4; Entity
Entity Parameters:
V_{max} (U_i) = 30Vdc, I_{max} (Ii_i) = 100mA, P_i = 0.75W, C_i = 1.0nF, 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 / AEx ia IIC / T4 Ta = 85°C; T5 Ta = 60°C - 20071-14-N6P6; Entity
Entity Parameters:
V_{max} (U_i) = 28Vdc, I_{max} (Ii_i) = 120mA, P_i = 0.84W, C_i = 1.0nF, 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, including ANSI/ISA 61010-1.

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 / AEx ia IIC / T4 Ta = 80°C; T5 Ta = 60°C - 20071-14-N6P4; Entity
Entity Parameters:
V_{max} (U_i) = 30Vdc, I_{max} (Ii_i) = 100mA, P_i = 0.75W, C_i = 1.0nF, 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 / AEx ia IIC / T4 Ta = 85°C; T5 Ta = 60°C - 20071-14-N6P6; Entity
Entity Parameters:
V_{max} (U_i) = 28Vdc, I_{max} (Ii_i) = 120mA, P_i = 0.84W, C_i = 1.0nF, L_i = 0

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)

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; and for Class I, Zone 0, Group IIC when installed per document nos. 20071-14-N6P4 and 20071-14-N6P6 hazardous (Classified) 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, Japan

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

Class 3600	1998
Class 3610	2010
Class 3810	2005
ANSI/ISA 60079-0	2009
ANSI/ISA 60079-11	2009

Original Project ID: 3027935 Approval Granted: August 8, 2007

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
070915	October 1, 2007		
3042120	May 20, 2011		

FM Approvals LLC

J. E. Marquedant
Group Manager, Electrical

20 May 2011
Date