



Member of the FM Global Group

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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

3730-43-abcdef. Profibus PA Positioner

3730-53-abcdef. Foundation FF Positioner

IS / I,II,III / 1 / ABCDEFG / T6 Ta = 60°C - Addendum to EB Addendum to EB 8384-5 EN, pages 7 to 12; Entity/FISCO; Type 4X

I / 0 / AEx ia IIC / T6 Ta = 60°C - Addendum to EB 8384-5 EN, pages 7 to 12; Type 4X

NI / 1 / 2 / ABCD / T6 Ta = 60°C - Addendum to EB 8384-5 EN, pages 10 to 12; Nonincendive Field

Wiring/FNINCO; Type 4X; S / II,III / 2 / FG / T6 Ta = 60°C; Type 4X

I / 2 / Ex nA / nL IIC / T6 Ta = 60°C - Addendum to EB 8384-5 EN, pages 10 to 12; Nonincendive Field Wiring/FNINCO; Type 4X

Entity/FISCO Parameters:

Foundation-Fieldbus Signal Terminals Group A/B (IIC)

V_{max} (Ui) = 24V, I_{max} (Ii) = 360mA, P_{max} (Pi) = 1.04W, Ci = 5nF, Li = 10μH

Profibus-Fieldbus Signal Terminals Group C, D (IIB)

V_{max} (Ui) = 24V, I_{max} (Ii) = 380mA, P_{max} (Pi) = 2.58W, Ci = 5nF, Li = 10μH

Profibus-Fieldbus Signal Circuit Terminals Group A/B (IIC)

V_{max} (Ui) = 17.5Vdc, I_{max} (Ii) = 380mA, P_{max} (Pi) = 5.32W, Ci = 5nF, Li = 10μH

Nonincendive Field Wiring/FNINCO Parameters:

Foundation-Fieldbus Signal Terminals Group A/B (IIC)

V_{max} (Ui) = 30V or 32V, I_{max} (Ii) = 152mA or 130mA, P_{max} (Pi) = 1.14W, Ci = 5nF, Li = 10μH

Profibus-Fieldbus Signal Terminals Group C, D (IIB)

V_{max} (Ui) = 30V or 32V, I_{max} (Ii) = 379mA or 324mA, P_{max} (Pi) = 3.85W or 2.77W, Ci = 5nF, Li = 10μH

Inputs & Outputs:

Limit Switches Terminals (Entity/FISCO):

V_{max} (Ui) = 16V, I_{max} (Ii) = 25mA, P_{max} (Pi) = 64mW, Ci = 30nF, Li = 100μH

V_{max} (Ui) = 16V, I_{max} (Ii) = 52mA, P_{max} (Pi) = 169mW, Ci = 30nF, Li = 100μH

Limit Switches Terminals (Nonincendive Field Wiring/ FNINCO):

V_{max} (Ui) = 20V, I_{max} (Ii) = 25mA, P_{max} (Pi) = 64mW, Ci = 60nF, Li = 100μH

Force Venting Function Terminals 81/82 (Entity/FISCO):

V_{max} (Ui) = 28V, I_{max} (Ii) = 115mA, P_{max} (Pi) = 0.5W, Ci = 5.3nF, Li = 0

Force Venting Function Terminals 81/82 (Nonincendive Field Wiring/FNINCO):
Vmax (Ui) = 30V, I_{max} (Ii) = 100mA, P_{max} (Pi) = 0.75W, Ci = 5.3nF, Li = 0

Binary Inputs 1 & 2 Terminals (Entity/FISCO/Nonincendive Field Wiring/ FNINCO):
Vmax (Ui) = 30V, I_{max} (Ii) = 100mA, P_{max} (Pi) = 0.75W, Ci = 0, Li = 0
Voc (Ui) = 5.88V, I_{max} (Ii) = 1mA, P_{max} (Pi) = 7.2mW, Ca = 2µF, La = 10mH

Serial Interface Active & Passive Plugs (Entity/FISCO/Nonincendive Field Wiring/ FNINCO):
Voc (Ui) = 8.61V, I_{sc} (Ii) = 55mA, P_{max} (Pi) = 250mW, Ca = 0.61µF, La = 9mH
Vmax (Ui) = 16V, I_{sc} (Ii) = 25mA, P_{max} (Pi) = 64mW, Ci = 0, Li = 0

a = Inductive proximity switches: 0 (without proximity switch) or 1 (with proximity switch).
b = Force venting function (solenoid Valve): 0 (not provided) or 4 (provided).
c = Vibration Sensor: 0 (not provided) or 2 (provided).
d = Binary input: 0 (not provided) or 3 (provided).
e = External position sensor: 0 (not provided) or 1 (provided).
f = Connections: Pneumatic connections, electrical connections, 1+2 m 20 x1.5 (plastic) or 1 + 5 = M 20 x 1.5 (metal).

Equipment Ratings:

evaluated as Intrinsically Safe electrical apparatus with Entity/FISCO parameters for use in Class I, II, III, Division 1, Groups A, B, C, D, E, F and G; alternatively for Class I, Zone 0, AEx ia Group IIC; Temperature Class T6 Ta = 60°C in accordance with control drawing Addendum to EB 8384-5 EN, pages 7 to 12; Nonincendive electrical apparatus with nonincendive field wiring/FNINCO for use in Class I, Division 2, Groups A, B, C and D; Suitable for Class II,III, Division 2, Groups F and G Temperature Class T6 Ta = 60°C; alternatively for Class I, Zone 2, Ex nA / nL Group IIC; Temperature Class T6 Ta = 60°C in accordance with control drawing Addendum to EB 8384-5 EN, pages 10 to 12; indoor/outdoor Type 4X hazardous (classified) Locations.

Approved for:

Samson AG
Postfach 101901 D-60314 Frankfurt, Germany



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

Class 3600	1998
Class 3610	1999
Class 3611	2004
Class 3810	2005
ANSI/NEMA 250	1991

Original Project ID: 3023605

FM Approval Granted: September 5, 2005

Subsequent Revision Reports / Date FM Approval Amended

Report Number	Date	Report Number	Date
3025274	October 26, 2005		

FM Global Technologies LLC

Timothy Adam
Technical Team Manager
FM Approvals

31st October, 2005

Date