



Member of the FM Global Group

FM Approvals
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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

D20 Series. Compact Digital Positioner.

IS/I/1/ABCD/T4; $-40\text{ °C} \leq T_a \leq +85\text{ °C}$; 3-86; Entity
I/O/AEx ia/IIC/T4; $-40\text{ °C} \leq T_a \leq +85\text{ °C}$; 3-86; Entity
NI/I/2/ABCD/T4; $-40\text{ °C} \leq T_a \leq +85\text{ °C}$; 3-86; NIFW
NI/I/2/IIC/T4; $-40\text{ °C} \leq T_a \leq +85\text{ °C}$; 3-86; NIFW

See Control Drawing For Entity & Nonincendive Field Wiring Parameters.

D2abcd-efg-hijkl, Compact Digital Positioner.

- a = Model Number (0 = Digital Compact Positioner, General Purpose, LED Status; 1 = Digital Positioner, LCD Display, LED Status; 2 = Digital Positioner, Full LCD Menu, LED Status).
- b = Approval, Certificate (I = Intrinsically Safe & Nonincendive version).
- c = Connections Air, Electrical (G = 1/4" NPT Air, M20 x 1.5 Electrical x 2; J = 1/4" NPT Air, 1/2" NPT Electrical x 2, 1/4" NPT Aux Vent; L = 1/4" NPT Air, M20 x 1.5 Electrical x 2, 1/4" NPT Aux Vent; N = 1/4" NPT Air, 1/2" NPT Electrical x 2).
- d = Housing/Surface Treatment (R = Remote Mounted Feedback Sensor; U = Aluminium/Powder Epoxy; Y = Other).
- e = Function (D = Double Acting, Including Gauges Stainless/Brass; S = Single Acting).
- f = Mounting Options / Spindle (09 = Double D Type, Adaptor Spindle; 12 = Flowtop, D-Style+ Nut, Direct Mounting, Kit 30144 Included; 23 = VDI/VDE 3845 Rotary, Mounting Kit Not Included; 39 = VDI/VDE 3847 Linear, Flat D, Mounting Kit 30145 Included; 40 = IEC 534-6, Flat D Type, Nut Included, Mounting Kit Not Included).
- g = Cover & Indicator (PVA = Arrow Indicator; PVB = No Indicator; PVD = Dome Indicator).
- h = Temperature / Seals (Q = Low Temp -40 °C to $+85\text{ °C}$ (-40 °F to $+185\text{ °F}$); Z = Standard -20 °C to $+85\text{ °C}$ (-4 °F to $+185\text{ °F}$)).
- i = Input Signal / Protocol (4 = 4-20 mA / None; 5 = 4-20 mA / HART; F = Foundation Fieldbus; P = Profibus).
- j = Feedback Option, 4-20 mA Transmitter, Switches (4 = Slot Type Namur Sensor, P+F SJ2-S1N + 4-20 mA; 5 = Slot Type Namur Sensor, P+F SJ2-SN + 4-20 mA; 6 = Slot Type Namur Sensor, P+F SJ2-N + 4-20 mA; N = Namur V3 Type Sensor, P+F NJ2-V3-N + 4-20 mA; P =



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Limit Switches Proximity SPDT + 4-20 mA; S = Limit Switches Mechanical SPDT + 4-20 mA; T = 4-20 mA Transmitter Only; X = No Feedback Option).

k = Options, Add In Electronics (0 = Standard Diagnostics; 1 = Advanced, Built In Pressure Sensors).

l = Accessories (M = Gauge Block 1/8" G (2 x Gauges Included); N = Gauge Block 1/8" NPT (2 x Gauges Included); X = No Accessories).

Equipment Ratings:

Intrinsically Safe for use in Class I, Division 1, Groups A, B, C & D, in accordance with manufacturer's Control Drawing No. 3-86; Intrinsically Safe AEx ia T4 for use in Class I, Zone 0 & 1, Group IIC, in accordance with manufacturer's Control Drawing No. 3-86; Nonincendive, with Nonincendive Field Wiring Parameters, for use in Class I, Division 2, Groups A, B, C & D, and Class I, Zone 2, Group IIC, in accordance with manufacturer's Control Drawing No. 3-86, Hazardous (Classified) Locations

FM Approved for:

Palmstierna International AB
Korta Gatan 9
S-171 54 Solna
Sweden



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

Class 3600	1998
Class 3610	2007
Class 3611	2004
Class 3810	2005
ANSI/ISA-12.00.01	2005
ANSI/ISA-12.02.01	2002
ANSI/ISA-82.02.01	2004

Original Project ID: 3038391

Approval Granted: *July 6, 2010*

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
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FM Approvals LLC



J. E. Marquedant
Group Manager, Electrical

6 July 2010

Date