



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:

18abcde-f-g. Shaft Rotation Speed Sensors

IS/I,II,III/1/ABCDEFGH/T5 Ta* -- 990-006100 Entity; Type 4X, IP65

I/O/AEx ia IIC/T5 Ta* -- 990-006100 Entity; Type 4X, IP65

Entity Parameters:

U_i = 30V, I_i = 100mA, P_i = 0.7W, C_i = 0.042uF, L_i = 0uH.

a = Housing: B, E, R or F.

b = Sensor type: H or M.

c = Signal: S or Q.

d = Output: N or P.

e = Termination: O or T.

f = Cable length in feet: Any three digits 001 to 100 or Blank.

g = Wide temperature option: W or Blank.

Housing Option (a)	Wide Temperature Option (g)	T code	*Ambient Range (Ta)
E	Blank	T5	-30°C < Ta < 80°C
B, R, F	Blank	T5	-20°C < Ta < 80°C
B, R, F	W	T5	-40°C < Ta < 85°C

Equipment Ratings:

Intrinsically safe for Class I/II/III, Division 1, Groups A, B, C, D, E, F, and G;

Intrinsically safe for Class I, Zone 0, Group IIC;

Hazardous (classified) Locations, indoor and outdoor Type 4X, IP65.

FM Approved for:

Electro-Sensors Inc
Minnetonka, MN United States



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

Class 3600	2011
Class 3610	2010
Class 3810	2005
ANSI/ISA 61010-1	2004
ANSI/NEMA 250	2003
ANSI/IEC 60529	2004
ANSI/ISA 60079-0	2013
ANSI/ISA 60079-11	2013

Original Project ID: 3050257

Approval Granted: July 17, 2014

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
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FM Approvals LLC

J.E. Marquedant
Manager, Electrical Systems

17 July 2014

Date