



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:

Inductive Proximity Sensor. Bia-bcd-ef-gjk*; -Nia-bcd-ef-ghjk*; Sia-c-efk*
Inductive Magnet Operated Proximity Sensor. BIM-c-ef-ghjk*
Capacitive Proximity Sensor. BCa-c-efk*

IS / I,II,III / 1 / ABCDEFG T**, Ta **; IS-1.118A; Entity; I / 0 / AEx ia / IIC T**, Ta ** ; IS-1.118; Entity;
** T-Class is T5 when Ta = 70°C max, or T4 when Ta = 85°C max

Max Entity Parameters:

Table with 5 columns: Vmax/Ui (V), Imax/Ii (mA), P (mW), Ci (nF), Li (uH). Rows include Sensors with Group 1, 2, and 3 mechanical construction code.

a = Sensing distance in millimeters.
b = Housing material (cylindrical sensors only): E or blank
c = Mechanical construction code:

Group 1: AKT, DS20, DSC26, DSU26, DSU35, DSU35TC, FST, G05, G08, G12, G12SK, G14, G18, G18SK, G180, G182, G19, G28, G30, G30SK, GS880, H04, H6.5, H08, HS540, HS865, IKE, IKT, INT, K11, K20, K30, M12, M18, M30, NST, P12, P12SK, P18, P18SK, P30, P30SK, PSM, PST, PT30, QF5.5, Q5.5, Q06, Q08, Q10, Q10S, Q11, Q11S, Q12, Q14, Q20, Q14, Q20, QST, S12, S18, S30, UNT

Group 2: CA25, CA40, CK40, CP40, CP80, G47, G47SR, K09, K10, K33, K34, K34SR, K40, K40SR, Q25, Q30, Q80

Group 3: K08

d = Housing modifier (cylindrical sensors only): E, K, M, T or blank

e = Output Y0, Y1, 2Y0, 2Y1, AY1 or AY0.

f = LED X, X2, X4 or blank.

g = Connector style B1, B2, H1, V1, or blank. (blank in this case is a 2 meter cord; or xM, where x is the cable length in meters *)

h = Connector/sensor transition 1, 3, 4 or blank

j = Wiring code 21, 31, 40, 41, 51, 60 or blank

k = Option /F1, /F2, /F3, /F4, /F5, /S15, /S56, /S74, /S80, /S85, /S90, /S97, /S101, /S105, /S139, /S213, /S235, /S250, /S326, /S328, /S346, /S557, /S561, /S580, /S595, /S665, /S901, /S918, /S947, /S1019, /S1128, /S1139, /S1589, /S1631, /S1674, /S1687, /S1764, /S1765, /S1775 or blank.

* Sensors with integral cable may include a molded connector indicated by the added suffix:

picofast connector PSG 3, PSGV 3, PSG 3.21, PSGV 3.21

eurofast connector RS 4.21T, RSV 4.21T, WS 4.21T, WSE 4.21T

minifast connector RSM 20, RSV 20, WSM 20, WSV 20

Specific Condition for use:

Parts of some of the enclosures are constructed from plastic. To prevent the risk of electrostatic sparking, the plastic surface should only be cleaned with a damp cloth.

Equipment Ratings:

Intrinsically Safe for Class I, II, and III, Division 1, Groups A, B, C, D, E, F and G; and Class I Zone 0 Group IIC; Temperature Class T-Class is T5 when Ta = 70°C max, or T4 when Ta = 85°C max, Entity, in accordance with control drawing IS-1.118 .

FM Approved for:

Turck Inc
3000 Campus Drive
Plymouth, MN 55441

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

Original Project ID: 1F1A3.AX

Approval Granted: May 18, 1983

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
0T3H6.AX	September 3, 1992		
3044899	June 14, 2012		

FM Approvals LLC



J. E. Marquedant
Group Manager, Electrical

14 June 2012

Date