



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:

ISC40S-a-b-c. Inductive Conductivity Sensor.

IS / I / 1 / ABCD / T4 Ta = 85°C, T5 Ta = 85°C, T6 Ta = 40°C – FF1-K1244QX

Entity Parameters:

$V_{Max} = 19.1 \text{ V}$, $I_{Max} = 170 \text{ mA}$, $P_{Max} = 0.8 \text{ W}$, $C_i = 0 \text{ uF}$, $L_i = 0 \text{ uH}$.

a = Plastic and adaption code, GT, GG, TG, TS, TR, GR, GS or TF.

b = Temperature Element, T1 or T3

c = Cable length in meters, 50 max

Note: When T4 and Ta = 85°C, Process Temperature = 130°C maximum.

When T5 and Ta = 85°C, Process Temperature = 95°C maximum.

Special Condition of Use:

1. Shall be installed with transmitters ISC202S, IC200S or FLXA21 or to an FM Approved intrinsically safe apparatus meeting the entity parameters of the ISC40S.

2. Electrostatic charges on the enclosure and or cable shall be avoided.

3. For Inductive Conductivity Sensor Model ISC40S-GT series, because the external temperature element is made of Titanium, it must be installed such, that, even in the event of rare incidents, ignition sources due to impact and friction sparks are excluded.

Equipment Ratings:

Intrinsically Safe with Entity parameters for use in Class I, Division 1, Groups ABCD in accordance with manufacturer's Control Drawings: FF1-K1244QX hazardous (Classified) locations.

FM Approved for:

YPA Europe BV
Euroweg 2, 3825 HD, Amersfoort, The Netherlands



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

Class 3610	2010
Class 3600	2011
Class 3810	2005

Original Project ID: 3046320

Approval Granted: October 12, 2012

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
140922	December 12, 2014		
RR204779	April 25, 2016		

FM Approvals LLC

J.E. Marquedant
Manager of Electrical Systems

25 April 2016

Date