



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

Entity Parameters:

$V_{Max} = 19.1 \text{ V}$, $I_{Max} = 170 \text{ mA}$, $P_{Max} = 0.8 \text{ W}$, $C_i = 0 \text{ uF}$, $L_i = 0 \text{ uH}$.⁴

a = Plastic and adaption code, GT, GG, TG, 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:

Yokogawa Europe B.V.
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 |
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FM Approvals LLC

J.E. Marquedant
Group Manager, Electrical

12 October 2012

Date