

Schedule

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EC-TYPE EXAMINATION CERTIFICATE No. DEMKO 02 ATEX 131507X

[15] Description of Equipment or protective system

The product covered by this Certificate is a Ex Safety barrier having a part number P/N 3600663.

Intrinsic safety parameters (as associated apparatus):

U_m : 250 V
 U_o : 17,22 V
 I_o : 484 mA
 P_o : 2,05 W

For IIC:

L_o/R_o : 17,06 μ H/ohm - (L_o : 151,7 μ H) See Note 1.
 C_o : 333 nF

For IIB:

L_o/R_o : 68.2 μ H/ohm - (L_o : 607 μ H) See Note 1.
 C_o : 2,04 μ F

Note 1:

The maximum external inductance L_o is calculated as a sum of the inductance in the Core Processor ($L_i = 30 \mu$ H) and the lump inductance in the cable.

The maximum length of the cable to the sensor is 152 meter and the L_o/R_o ratio shall be calculated for the actual used cable and shall be below the stated L_o/R_o ratio.

In accordance to the Installation drawing the total cable capacitance shall be less than 197 pF / meter.

The apparatus has also been evaluated and been found to comply with EN60079-15:2003. The marking in accordance with EN60079-15 shall be:

Ex II 3(2)G EEx nA [ib] IIB T4 or EEx nA [ib] IIC T4

Electrical ratings (as Category 3 equipment):

Rated supply voltage: 24 VDC

[16] Report No.

Project Report No.: 131507-03 (Hazardous Location Testing)

Drawings:

All Scheduled drawings are listed in the document 5820G002, rev. 2006-06-07. All changes in the Schedule drawings shall be send to UL Int. Demko for evaluation.

Certificate: 02 ATEX 131507X
Report: 131507-03

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Special conditions for safe use:

- The ambient temperature: -40°C to $+60^{\circ}\text{C}$.

As associated apparatus:

- The complete specifications for entity parameters (Intrinsically Safe data) given in this Schedule must be passed to the purchaser together with any other relevant information.
- The safety barrier is only for use with Micro Motion Smart Sensors having the Intrinsic safety parameter $U_i : 17.3\text{ V}$, $I_i : 484\text{ mA}$, $P_i : 2.1\text{ W}$, $L_i : 30\mu\text{H}$ and $C_i : 2200\text{ pF}$.
- For further information see Installation drawing Type ATEX - D - IS.

As Category 3 equipment:

- For installation in areas, where category 3G equipment is required, the module has to be mounted in an enclosure which is in accordance with EN 60079-15.

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Essential Health and Safety Requirements

Concerning ESR this Schedule verifies compliance with the Ex standards only. The manufacturer's Declaration of Conformity declares compliance with other relevant Directives.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.

On behalf of UL International Demko A/S

Herlev, 2006-06-08


Karina Christiansen
Certification Manager

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Report: 131507-03

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